

INDUSTRIAL GCTV SYSTEMS

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

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HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

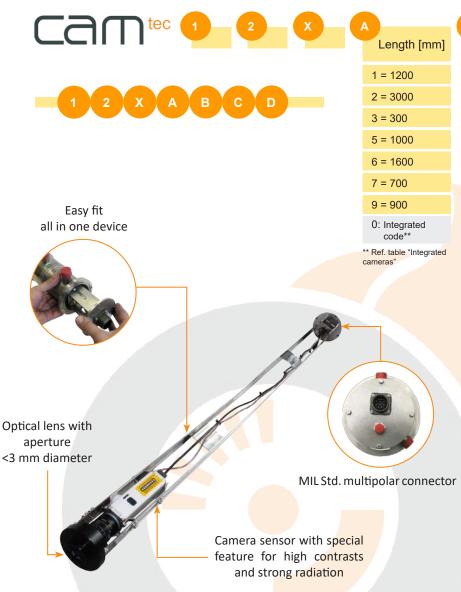
cantec sondatec outec intec cabtec*

PROTECTION DEVICES*

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

*Depending of the application may be not required.

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C



Output signal / Type pf sleeve
4 = HD SDI type for Sondatec 2.0
5 = HD SDI type for Sondatec 1.0
6 = for Sondatec 1.0
7 = for Sondatec 2.0
A = IP Sondatec 1.0
B = low lux 2.0
C = low lux 1.0
D = IP Sondatec 2.0
E = low lux 1.0 NTSC
F = IP Sondatec 1.0 (Bosch)
G = Sondatec "G"
H = Sondatec "H"
L = Sondatec "L"
M = CVBS type for Sondatec 1.0*
N = IP Sondatec 2.0 with Coax Transceiver#
O = for IR camera (With Sondatec 1.0)
J = IP Sondatec 1.0 with Coax Transceiver
P = Sondatec "P"
Q = Sondatec 01X1B0
S = Sondatec "S"

Produ
C
Lens (focal / inclination)
0 = 3,6 - 18 mm
1 = 6 mm
2 = 4 mm
3 = 2,8 mm
4 = 25 mm
5 = 10 mm
6 = 10 - 50 mm
7 = 3,7 mm
8 = 3,7 mm / 90°
9 = 8 mm / 90°
A = 3,3 mm
B = 3,3 mm / 45°
C = 3,3 mm / 60°; fov: up/bottom
D = 3,3 mm / 60°; fov: left/right
E = 3,6 - 18 mm for AIR cooled type
H = 41 mm
L = 7.7 mm
M = 18.7 mm
N = 41.5 mm
O = 10.5 mm
Q = 16 mm
R = 25 mm
S = 50 mm
T = 75 mm
X = no lens

ict co	ode configur	ation table
D	Option	Power

P = PoE/ = Thermostat

Supply

When cameras require PoE power supply, it

will be added a "P" at the end of the code.

T = Temp. Sensor (PT100)

S = Temp. Sensor (4-20 mA)**

E = Special version for EAF applications

F = as model "E" + Temp. Sensor (PT100)

G = as model "E" + Temp. Sensor (4-20 mA)

N = M20 AISI316L (No Temp. Sens.)

** "S-option" and "G-option" are not available with version: L= 300 mm.

previous CAM12X-6--, CAM12X-C--, #Spare part for CAM12X-7--, except L=300mm.

*New model interchangeable with

CAM12X-E--.

CAMERAS FOR HIGH TEMPERATURE VIDEO SYSTEMS





CAM12X3A0T



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Industrial IP camera with ADJUSTABLE high temperature lens 3,6-18mm (diagonal angle: 78°-18°, H: 72°-16°, V: 44°-9°) to be used inside SONDATEC 1.0. L=300mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Complete with temperature sensor (PT100). PRICE INCLUDE ASSEMBLING, SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera "E" series for EAF applications with ADJUSTABLE high temperature lens 3,6-18mm (diagonal angle: 78°-18°, H: 72°-16°, V: 44°-9°) to be used inside SONDATEC 1.0. L=300mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Complete with temperature sensor. PRICE INCLUDE ASSEMBLING, SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens 6mm (diagonal angle: 53°, H: 47°, V:27°) to be used inside SONDATEC 1.0, L=300mm. Overtemperture alarm switch included. Other specification as CAM12X3A0T.

Industrial IP camera as CAM12X3A1, complete with temperature sensor (Pt100).

Industrial IP camera supplied with assembled high temperature lens 4mm (diagonal angle: 74°, H: 66°, V: 40°), to be used with SONDATEC 1.0, L=300mm. Other specification as CAM12X3A1.

Industrial IP camera as CAM12X3A2, complete with temperature sensor (Pt100).

IP industrial camera supplied with assembled high temperature lens 2,8mm (diagonal angle: 94°, H: 86°, V: 55°), complete with temperature sensor (Pt100). Other specification as CAM12X3A1.

Industrial IP camera "E" series for EAF applications with ADJUSTABLE high temperature lens 10-50mm (diagonal angle: 33°-6°, H: 29°-6°, V: 16°-3°) with a frontal lens resistant up to T=1000°C x 10 minutes in the absence of cooling system, to be used with SONDATEC 1.0, L=300mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Complete with temperature sensor (PT100). PRICE INCLUDE ASSEMBLING. SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with AD<mark>JUSTABLE</mark> h<mark>igh tem</mark>perature lens 3,6-18mm (diagonal angle: 78°-18°, H: 72°-16°, V: 44°-9°) to be used inside SONDATEC 1.0. L=700mm. Other specification as CAM12X3A0T.

Industrial IP camera as CAM12X7A0T, complete with temperature sensor (4-20mA).

Industrial IP camera "E" series for EAF applications with ADJUSTABLE high temperature lens 3,6-18mm (diagonal angle: 78°-18°, H: 72°-16°, V: 44°-9°), L=700mm. Power supply: 24Vdc. Other specification as CAM12X7A0T.

Industrial IP camera with high temperature lens 6mm (diagonal angle: 53°, H: 47°, V: 27°), Other specification as CAM12X7A0S.

Industrial IP camera with high temperature lens 4mm (diagonal angle: 74°, H: 66°, V: 40°). Other specification as CAM12X7AOS.

Industrial IP camera with high temperature lens 2,8mm (diagonal angle: 94°, H: 86°, V: 55°). Other specification as CAM12X7A0S.

Industrial IP camera "E" series for EAF applications with ADJUSTABLE high temperature lens 10-50mm (diagonal angle: 33-6°; H: 29°-6°, V: 16°-3°). Other specification as CAM12X3A0E.

CAM12X3A0E

CAM12X3A1

CAM12X3A1T

CAM12X3A2

CAM12X3A2T

CAM12X3A3T

CAM12X3A6F

NEW

CAM12X7A0T

CAM12X7A0S

CAM12X7A0F

CAM12X7A1S

CAM12X7A2S

CAM12X7A3S

CAM12X7A6E



CAMERAS FOR HIGH TEMPERATURE VIDEO SYSTEMS - IP





CAM12X3D2T



CAM12X7D3S



CAM12X1D0T



CAM12X1D0S

CAM12X1D2S
CAM12X1D3S
CAM12X1DC0



CAM12X1DCS

CAM12X1DDS

CAM12X5D1T

CAM12X5D2T CAM12X5D2S HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Industrial IP camera with high temperature lens 4mm (diagonal angle: 74°, H: 66°, V: 40°) to be used inside SONDATEC 2.0. L=300mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Complete with temperature sensor Pt100. PRICE INCLUDE ASSEMBLING, SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens 2,8mm (diagonal angle: 94°, H: 86°, V: 55°) to be used inside SONDATEC 2.0. L=700mm. Complete with temperature sensor 4-20mA. Other features as CAM12X3D2T.

Industrial IP camera with ADJUSTABLE high temperature lens 3,6-18mm (diagonal angle of view 78°-18° (H67°-15° / V53°-11°) to be used inside SONDATEC 2.0 length 1200mm. to be used inside SONDATEC 2.0 length 1200mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Provided with temperature sensor (Pt100) PRICE INCLUDE ASSEMBLING; SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with ADJUSTABLE high temperature lens 3,6-18mm (diagonal angle of view 78°-18° (H67°-15° / V53°-11°) to be used inside SONDATEC 2.0 length 1200mm. to be used inside SONDATEC 2.0 length 1200mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Provided with temperature sensor (Pt100: 4-20mA) PRICE INCLUDE ASSEMBLING; SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens 4mm (diagonal angle: 74°, H: 66°, V: 40°). Other features as CAM12X1D0S.

Industrial IP camera with high temperature lens 2,8mm (diagonal angle: 94°, H: 86°, V: 55°). Other features as CAM12X1D0S.

Industrial IP camera with high temperature lens diagonal angle of view of 85° (H: 76° - V: 48°) to be used inside SONDATEC 2.0 length 1200mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. PRICE INCLUDE ASSEMBLING; SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens diagonal angle of view of 85° (H: 76° - V: 48°) to be used inside SONDATEC 2.0 length 1200mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Provided with temperature sensor (Pt100: 4-20mA) PRICE INCLUDE ASSEMBLING; SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens diagonal angle of view of 85° (H: 76° - V: 48°) field of vision left/right. Other features as CAM12X1DCS.

Industrial IP camera with high temperature lens straight vision diagonal angle of view 53° to be used inside SONDATEC 2.0 length 1000mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2), 3.2W consumption. Overtemperture sensor on board. PRICE INCLUDE ASSEMBLING; SETTING AND CUSTOM CONFIGURATION.

Industrial IP camera with high temperature lens straight vision diagonal angle of view 74°. Other specifications as CAM12X5D1T.

Industrial camera as CAM12X5D2T, complete with temperature sensor (4-20mA).

CAMERAS FOR HIGH TEMPERATURE VIDEO SYSTEMS





CAM12X3M0



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Industrial camera with ADJUSTABLE high temperature lens 3.6-18mm (angles H: 60°-11°; V: 42°-9°) designed for SONDATEC 1.0 housing, length=300mm. 1/3" CMOS sensor, 2.1MP, high resolution 1000HTVL, Wide Dynamic Range specified for applications with high contrast and ICR function for use in Low Light conditions. Minimum illumination 0.05Lux @AGC on/Sens-up off. Video output: CVBS (4:3 ratio). Configuration of parameters through portable monitor (optional), RS-485 protocol. Standard PAL-NTSC selectable. Power supply: 12Vdc. Complete with thermostat. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING OF THE CAMERA.

Industrial camera as CAM12X3M0, complete with temperature sensor (Pt100).

Industrial camera "E" series for EAF applications with ADJUSTABLE high temperature lens from 3.6-18mm (angles H: 60°-11°; V: 42°-9°). L=300mm. Power supply: 24Vdc. Other specification as CAM12X3M0.

Industrial camera with high temperature lens 6mm (angles H: 32°; V: 24°). Other specification as for CAM12X3M0.

Industrial camera as CAM12X3M1, complete with temperature sensor (Pt100).

Industrial camera with high temperature lens 4mm (angles H: 48°; V: 35°). Other specification as for CAM12X3M0.

Industrial camera as CAM12X3M2, complete with temperature sensor (Pt100).

Industrial camera "E" series for EAF applications with high temperature lens 4mm (angles H: 48°; V: 35°). L=300mm. Power supply: 24Vdc. Other specification as CAM12X3M2.

Industrial camera with high temperature lens 2,8mm (angles H: 62°; V: 50°). Other specification as for CAM12X3M0.

Industrial camera as CAM12X3M3, complete with temperature sensor (Pt100).

Industrial camera "E" series for EAF applications with ADJUSTABLE high temperature lens 10-50mm (angles H:21°-4°; V:16°-3°). L=300mm. Power supply: 24Vdc. Other specification as CAM12X3M0.

Industrial camera with ADJUSTABLE high temperature lens 3.6-18mm (angles H:60°-11°, V:42°-9°) designed for SONDATEC 1.0 housing, length=700mm. 1/3" CMOS sensor, 2.1MP, high resolution 1000HTVL, Wide Dynamic Range specified for applications with high contrast and ICR function for use in Low Light conditions. Minimum illumination 0.05Lux @AGC on/Sens-up off. Other specification as CAM12X3M0.

Industrial camera as CAM12X7M0, complete with temperature sensor (Pt100).

Industrial camera as CAM12X7M0, complete with temperature sensor (4-20mA).

Industrial camera with high temperature lens 6mm (angles H: 32°; V: 24°), with temperature sensor (4-20mA). Other specification as for CAM12X7M0.

Industrial camera with high temperature lens 4mm (angles H: 48°; V: 35°), with temperature sensor (4-20mA). Other specification as for CAM12X7M0.

Industrial camera with high temperature lens 2.8mm (angles H: 62°: V: 50°). Other specification as for CAM12X7M0.

Industrial camera as CAM12X7M3, complete with temperature sensor (Pt100).

Industrial camera as CAM12X7M3, complete with temperature sensor (4-20mA).

CAM12X3M0T

CAM12X3M0E

CAM12X3M1

CAM12X3M1T

CAM12X3M2

CAM12X3M2T

CAM12X3M2E



CAM12X3M3

CAM12X3M3T

CAM12X3M6E



CAM12X7M0



CAM12X7M0T

CAM12X7M0S

CAM12X7M1S

CAM12X7M2S

CAM12X7M3

CAM12X7M3T

CAM12X7M3S



CAMERAS FOR HIGH TEMPERATURE VIDEO SYSTEMS - ANALOG



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Tobx90°-6mm

Spare lens for CAM12X923 camera, with 60° diagonal angle of view.

TOBXP0286MK

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High temperature lens Pin-hole type f=2,8 mm for 1/3" CCD cameras.

TOBXP0420MK

High temperature lens Pin-hole type f=4 mm for 1/3" CCD cameras.

TOBXP0620MK

High temperature lens Pin-hole type f=6 mm for 1/3" CCD cameras.

TOBXP1028FK

High temperature lens Pin-hole type f=10 mm for 1/3" CCD cameras.

TOBXP2562FK

High temperature lens Pin-hole type f=25 mm for 1/3" CCD cameras.

TOBXP1050

High temperature lens Pin-hole type f=10-50 mm for 1/3" CCD cameras. CS mount.

TOBXP3618B



High temperature lens Pin-hole type f=3,6-18 mm for 1/3" CCD cameras. Diagonal angle from 78° to 18°. Manufactured in Stainless Steel with quartz lenses. CS mount.

CAM12F001

Optic filter BG18, for infrared rays lens 2,8mm.

CAM12F002

Optic filter NEUTRAL DENSITY NG9 for high brightness lens 4mm, 6mm, 10mm.

Optic filter BG18, thickness 1mm, for infrared rays lens 4mm, 6mm, 10mm.

CAM12F101

Optic filter NEUTRAL DENSITY NG9 for high brightness lens 2,8mm.

CAM12F102

CAM12F103 CAM12F104 Optic filter NEUTRAL DENSITY NG9 for high brightness for VARIFOCAL PIN-HOLE LENSES.

CAM12F106

Optic filter NEUTRAL DENSITY BG18 for high brightness for VARIFOCAL PIN-HOLE LENSES. Diameter 16 mm, thickness 1 mm.

SC-7PM

Frontal glass Heat resistant and Heat reflecting Diam. 22 mm sp.1 mm.



Touch screen 7" portable monitor with DVR function for IP, CVBS signals. Multifunction tester, suitable for the calibration, control and focusing of a camera connected directly to the apparatus. Commands for RS-485 serial lines with PELCO-D, PELCO-P, Samsung, Panasonic, Lilin, Yann etc protocol. Video recording, snapshot, saving and playback. Equipped with touch screen 7" display IPS Full HD 1280x800 pixels. Intregated Lithium battery 7.4V 5000mAh. LAN 10/100Mbps RJ45 - IP camera and PoE. Supports Wifi and Bluetooth connections. Supports PTZ (ONVIF) management, OSD menu. External power supply: 12Vdc 2A. Dimensions: 231x172x52 mm. Operating temperature: -10°C/+50°C.

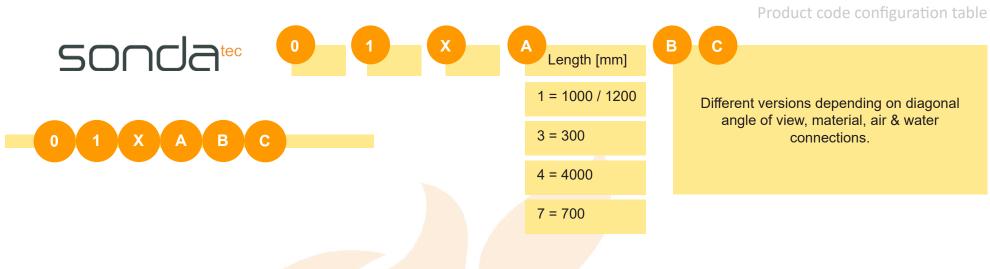
KIT CAM12X-M--

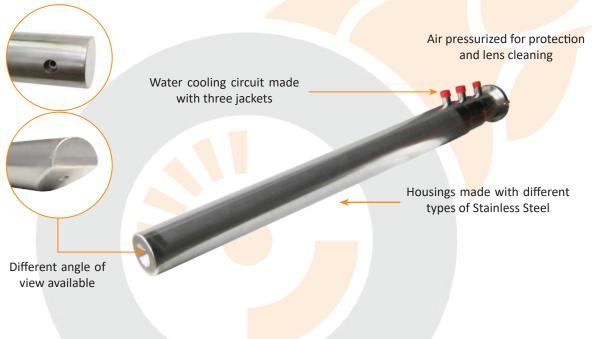
CAM12X-M programming kit consisting of L=1,5m cable with MIL-STD female connector on camera side and MIL-STD male connector on JBX/Cabtec side with box for video signal pick-up and RS485 signal. Supplied with RG59 coaxial cable headed BNC-BNC and RS485 cable L=2m.



ACCESSORIES & SPARE PARTS

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C





- Water & Air cooled pressurized housings
- Employment of industrial parts
- Up to 2200°C



SON01X301



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Housing SONDATEC 1.0 for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air compressed cooled. Axial vision, for lens up to 105° diagonal angle of view. Made by Stainless Steel AlSI316L, diameter 101,6 mm, length 350 mm.

SON01X302



Housing SONDATEC completed with flange for coupling to the VOD. Suitable for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air compressed cooled. Axial vision, it allows the application of lens with diagonal angles of view up to 105°. Made by Stainless Steel AISI316L, diameter 101,6 mm, length 350 mm.

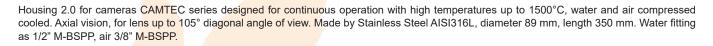
Completed with rear cover with multipolar connector MIL std. It includes internal wiring and bracket for camera.

SON01X310

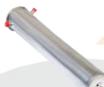


Housing SONDATECplus, designed for continuous operation with high temperatures up to 2200°C, water and air compressed cooled. Axial vision, for lens up to 32° diagonal angle of view. Made by Stainless Steel AISI316L, diameter 101,6 mm, length 300 mm. Complete with bottom cover for KITTEC series tube and multi-polar connector MIL std. Air and water fitting as 1/2" gas M-BSPP.

SON01X330



SON01X701



TV Camera housing SONDATEC 1.0 for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Straight vision allows to use up to 105° diagonal angle of view lenses. Made by Stainless Steel AlSI316L, diameter 101,6 mm, length 700 mm. Completed with back cover suitable for KITTEC connection series.

Air inlet 1/4" M-BSPP, water inlet/outlet 1/2" M-BSPP.

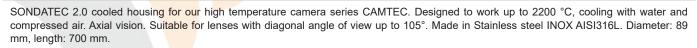
SON01X702



TV Camera housing SONDATEC 1.0 VOD for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Straight vision allows to use up to 105° diagonal angle of view lenses. Made by Stainless Steel AlSl316L, diameter 101,6 mm, length 700 mm. Complete with back cover suitable for KITTEC connection series.

Air inlet 1/4"M-BSPP, water inlet/outlet 1/2" M-BSPP.

SON01X703



SON01X704

TV Camera housing SONDATEC 1.0 VOD for CAMTEC cameras, designed for continuous operation with high temperature up to 2200°C (water and air cooled). Straight vision allows to use up to 105° diagonal angle of view lenses. Made by stainless steel AISI316L, Diameter: 101,6mm, Length: 700mm. Supplied with flange DN300, thickness 20mm AISI304. Air inlet 1/4"M-BSPP, water inlet/outlet 1/2"M-BSPP.

SON01X711

TV Camera housing SONDATEC for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Straight vision allows to use up to 105° diagonal angle of view lenses. Made by Stainless Steel HASTELLOY C276, diameter 101,6 mm, length 700 mm. With back cover completed with multi-polar connector MIL std.

Air inlet 1/4" M-BSPP, water inlet/outlet 1/2" M-BSPP.



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

SON01X100



Housing SONDATEC 2.0 for cameras CAMTEC series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Axial vision, it allows to use lens up to 105° diagonal angle of view. Made by Stainless Steel AISI310, diameter 89 mm, length 1000 mm. Water fitting as 1/2"M-BSPP, flaring 60°. Air 3/8" M-BSPP.

SON01X101



Housing SONDATEC 2.0 realized as SON01X100, but with connections for air and water placed on the left side (back view), suitable to be used with INTEC series.

SON01X102

Housing SONDATEC 2.0 realized as SON01X100, but with connections for air and water placed on the right side (back view), suitable to be used with INTEC series.

SON01X120



Housing SONDATEC 2.0 for camera CAMTEC for working up to 2200°C, water and air compressed cooled. Axial vision, for lens up to 105° diagonal angle of view. Made by Stainless Steel AlSl310, diameter 89 mm, length 1200 mm. Water fitting as 1/2" M-BSPP, air 3/8" M-BSPP.

SON01X121



Housing SONDATEC 2.0 realized as SON01X120, but with connections for air and water placed on the left side (back view), suitable to be used with INTEC series.

SON01X122

Housing SONDATEC 2.0 realized as SON01X120, but with connections for air and water placed on the right side (back view), suitable to be used with INTEC series.

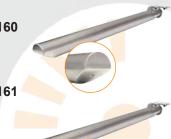
SON01X125

Housing SONDATEC 2.0 for CAMTEC series camera. Able for working up to 1600°C, ONLY AIR COOLED using vortex tube technologies. Axial vision, for lens up to 105° diagonal angle of view. External tube made by Stainless Steel AISI310, diameter 89 mm, length 1200 mm. Air connection 2x1/2" M-BSPP, 1x3/8" M-BSPP.

SON01X145



SON01X160



Housing SONDATEC 2.0 for cameras CAM12X17C series for working up to 2200°C, water and air compressed cooled. Axial vision for lens 85° diagonal angle of view. Made by Stainless Steel AISI310, diameter 89 mm, length 1200 mm. Water fitting as 1/2" M-BSPP, air 3/8" M-BSPP.

SON01X161



Housing SONDATEC 2.0 for cameras CAM12X17C series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Angle of Sonda inclination 120°, it allows to use lens up to 85° diagonal angle of view. Field of vision: BOTTOM. Made by Stainless Steel AlSI310, diameter 89 mm, length 1200 mm. Connections for air and water placed on the LEFT (back view). Water fitting 1/2" M-BSPP, flared 60°. Air 3/8" M-BSPP.

SON01X162

Housing SONDATEC 2.0 for cameras CAM12X17C series. Field of vision: BOTTOM. Connections for air and water placed on the RIGHT side (back view). Other features as SON01X161.



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

SON01X163



Housing SONDATEC 2.0 for cameras CAM12X17C and CAM12X17CT, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Angle of Sonda inclination: 120°. Field of vision: LEFT. Made in Stainless Steel AlSI310, diameter 89 mm, length 1200 mm (other on request). Connections for air and water placed on the LEFT side (back view). Water fitting 1/2" M-BSPP. Air 3/8" M-BSPP.

SON01X164

Housing SONDATEC 2.0 for cameras CAM12X17C and CAM12X17CT. Field of vision: LEFT. Connections for air and water placed on the RIGHT side (back view). Other features as SON01X164.





Housing SONDATEC 2.0 for cameras CAM12X17C and CAM12X17CT, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Angle of Sonda inclination: 120°. Field of vision: RIGHT. Made in Stainless Steel AlSI310, diameter 89 mm, length 1200 mm (other on request). Connections for air and water placed on the LEFT side (back view). Water fitting 1/2" M-BSPP. Air 3/8" M-BSPP.

SON01X166

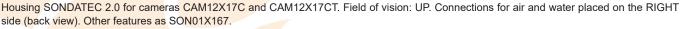
Housing SONDATEC 2.0 for cameras CAM12X17C and CAM12X17CT. Field of vision: RIGHT. Connections for air and water placed on the RIGHT side (back view). Other features as SON01X165.

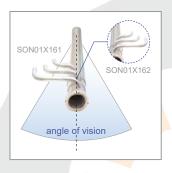
SON01X167

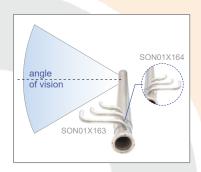


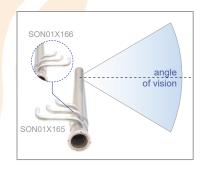
Housing SONDATEC 2.0 for cameras CAM12X17C and CAM12X17CT, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Angle of Sonda inclination 120°. Field of vision: UP. Made in Stainless Steel AlSI310, diameter 89 mm, length 1200 mm (other on request). Connections for air and water placed on the LEFT side (back view). Water fitting 1/2" M-BSPP, flared 60°. Air 3/8" M-BSPP.

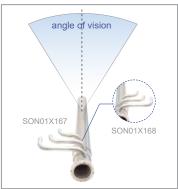
SON01X168











SON01X190

Housing SONDATEC 2.0 for cameras CAMTEC90 series, designed for continuous operation with high temperatures up to 2200°C, water and air cooled. Angle of view 90°. Made by Stainless Steel AlSI310, diameter 89 mm (VERSION 2.0), length 1200 mm. Completed with back cover suitable for KITTEC connection series. Air fitting 1/2" F-BSPP, water 1/2" M-BSPP, flared 60°. Different lengths available on request.



SON05X400



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 2200°C

Vision system for TOP-ROLL composed by "TRIPLE JACKET SHIRT" water circuit, length 4000 mm (others on request), camera module with high resolution B/W, high temperatures lens with diagonal angle of view 53° and diagonal vision of 90°. Outer sheath made of INOX AISI316L, diameter 89 mm. Connection to electrical signal through multi-polar connector MIL-STD. The product will be supplied fully assembled and tested (leak testing under pressure 10bar/24hour).

SON05X411

Vision system for TOP-ROLL composed by "TRIPLE JACKET SHIRT" water circuit, length 4000 mm (others on request), camera module with high resolution B/W, high temperatures lens with diagonal angle of view 53° and diagonal vision of 90°. Outer sheath made of INOX AISI316L, diameter 89 mm, with insulation made in Stainless Steel AISI304L, external diameter 101,6 mm. Connection to electrical signal through multipolar connector MIL-STD. The product will be supplied fully assembled and tested (leak testing under pressure 10bar/24hour).

SON05X412



High temperature camera housing SONDATECpro series realized with "TRIPLE JACKET SHIRT" water circuit, length 4000 mm (others on request), designed for camera module CAMtec 12X series with diagonal angle of view 90°. Outer sheath made of AISI310S steel, diameter 89 mm. Complete with external thermal insulation realized with Ceramic fiber textile products whitin an additional Stainless Steel AISI304 tube with 101,6 mm. Cooling water connection 2x1" NPT (F), Nitrogen 1x1/2" NPT (F). Back cover complete with multi-polar metal connector MIL STD. The product will be supplied fully assembled and tested (leak testing under pressure 10bar/24hour).

SON01F005



Support for SONDATEC, made of AISI304 Stainless Steel.

SON01F010



Mechanical flange for matching SONDATEC 1.0 to OUTEC. Made by Stainless Steel AISI304, diameter 101,6 mm.

SON01F040



SON01F070



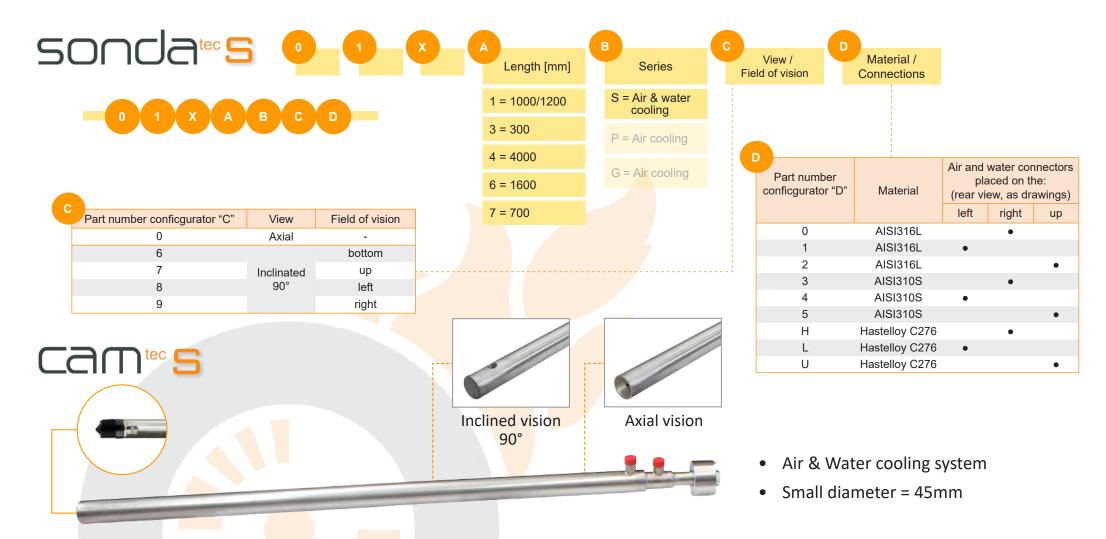
Vacuum flange with gasket and pressure ring complete with probe quick release mechanism, suitable for matching Sondatec 1.0 to furnace wall.

SON01H001



Flor mounting bracket with 3 swivel joints for 3-axis adjustment for manual SONDATEC introduction. Made with stainless steel INOX AISI304.

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C



"S" series has been developed for all applications that require a small entrance diameter.

Thanks to this feature it is ideal for mobile inspections.

PORTABLE HIGH TEMPERATURE VISION SYSTEMS





SON01X1S0H

SON01X1S01

SON01X1S02

SON01X1S82

SON01X1S91

SON01X2S02

SON01X2S82

SON01X6S01

SON01X6S03

SON01X6S82



Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by HASTELLOY C276, air and water connection on right. Diameter: 45mm, length: 1200mm.

Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by Stainless Steel AISI316L, air and water connection on left. Diameter: 45mm, length: 1200mm.

Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by Stainless Steel AISI316L, air and water connection on the top. Diameter: 45mm, length: 1200mm.

Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Inclined vision 90°, field of vision: left. Made by stainless steel AISI316L, air and water connection on the top. Diameter: 45mm, length: 1200mm.

Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Inclined vision 90°, field of vision: right. Made by stainless steel AISI316L, air and water connection on left. Diameter: 45mm, length: 1200mm.

Camera housing SONDATEC S series as SON01X1S02, but with length: 2000mm.

Camera housing SONDATEC S series as SON01X1S82, but with length: 2000mm.

Camera housing SONDATEC S series as SON01X1S01, but with length: 1600mm.

Camera housing SONDATEC S series for CAMTEC cameras, designed for continuous operation with high temperature up to 1800°C, water and air cooled. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by Stainless Steel AISI316L, air and water connection on opposite sides. Diameter: 45mm, length: 1600mm.

Camera housing SONDATEC S series as SON01X1S82, but with length: 1600mm.



CAM12X1S7T



CAM12X1S8

CAM12X1S8T

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1800°C

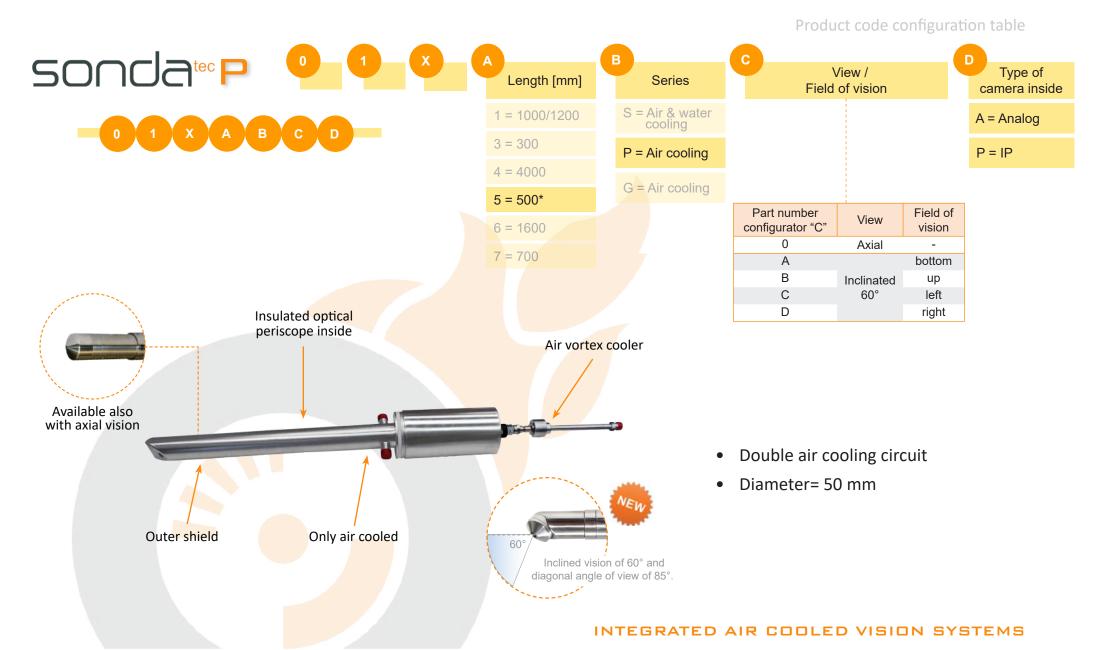
Industrial IP camera with high temperature lens 68° (diagonal angle) used with SONDATEC S series, axial vision. Length=1200mm. Progressive CMOS 1/4" sensor, f=3.7mm, resolution up to 1280x720 pixels @ 30fps. Configuration of parameters through web server. It requires control unit and separate power supply, available in local JBX or CABTEC. Complete with temperature sensor (Pt100). Supplied with bracket and flange integrated with air cooling system. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING OF THE CAMERA.

Industrial IP camera with high temperature lens 68° (diagonal angle) used with SONDATEC S series, inclined vision 90°. Length=1200mm. Progressive CMOS 1/4" sensor, f=3.7mm, resolution up to 1280x720 pixels @30fps. Ultra Wide Dynamic Range specified for applications with high contrast, and in presence of infrared wavelengths. Other features as CAM12X1S7T.

Industrial IP camera as CAM12X1S8, but equipped with temperature sensor (Pt100).

PORTABLE HIGH TEMPERATURE VISION SYSTEMS

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1600°C











SON01X5P0P

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 1600°C

SONDATEC P camera housing integrated with CAMTEC cameras, designed for continuous operation with high temperature up to 1600°C, equipped with double air cooling circuit: one for cooling and cleaning lens/camera with 1/4" M-BSPP connections, complete with vortex cooler (BP3210), and another one for external shield cooling with 2x1/2" M-BSPP connections. Inclined vision 60°, field of vision: bottom. Provided with insulated optical periscope. 1.3 Mega pixel sensor, high resolution >800 lines, Ultra Wide Dynamic Range specified for applications with high contrast and in presence of infrared wavelengths. Configuration of parameters through UTC keyboard (optional). Standard PAL-NTSC selectable. Power supply: 12Vdc or 24 Vac (50-60Hz). Complete with double temperature sensor (Pt100), one for each air cooling circuit. Housing realized in AlSI310 stainless steel. Diameter 50mm, length of penetration 500mm.

SONDATEC P camera housing integrated with IP CAMTEC cameras, designed for continuous operation with high temperature up to 1600°C, equipped with double air cooling circuit: one for cooling and cleaning lens/camera with 1/4" M-BSPP connections, complete with vortex cooler (BP3210), and another one for external shield cooling with 2x1/2" M-BSPP connections. Inclined vision 60°, field of vision: bottom. 1/3 progressive scan color CCD sensor, with 1280x960 pixel. Frame rate up to 30fps @ max resolution. Image settings available right for high contrast and brightness backgroud as furnace, boiler, high temperature process. Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Power 12Vdc or PoE (Powe Over Ethernet IEEE 802.3af Class2). Complete with double temperature sensor (Pt100), one for each air cooling circuit. Housing realized in AISI310 stainless steel. Diameter 50mm, length of penetration 500mm.

SONDATEC P camera housing integrated with IP CAMTEC cameras, designed for continuous operation with high temperature up to 1600°C, equipped with double air cooling circuit: one for cooling and cleaning lens/camera with 1/4" M-BSPP connections, complete with vortex cooler (BP3210), and another one for external shield cooling with 2x1/2" M-BSPP connections. Axial vision. Equipped with insulated optical periscope. 1/3" CMOS sensor Full HD 1920x1080 @30fps. Minimum illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Image settings available for high contrast and brightness background as furnace, boiler, high temperature process. Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple video compression MJPEG, MPEG-4, H.264. Power 12/24Vdc or PoE (Power Over Ethernet IEEE 802.3af Class2). Complete with double temperature sensor (Pt100), one for each air cooling circuit. Housing realized in AlSI310 stainless steel. Diameter 50mm, length of penetration 500mm.

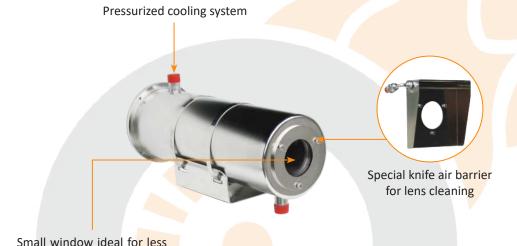
INTEGRATED AIR COOLED VISION SYSTEMS

► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

Product code configuration table



AIR & WATER COOLED PRESSURIZED CAMERA HOUSING



- A Front glass / Size
 - 1: Movable Glass (IP43)
 - 2: Fixed Glass (IP66)
 - 3: Fixed Glass / Large version
 - 0: Integrated code

- Cooling
- 0: H2O + AIR
- 1: ONLY AIR
- 2: ONLY H2O
- 3: NO COOLING

С

Versions

PROGRESSIVE VERSION:

Is identified with progressive numbering 1, 2, 3, 4, 5.. for changes to the original project classified with 0

- Air or Air&Water cooled pressurized housing
- Useful for Analogue, IP or Infrared camera and various instrumentation
- Up to 400°C

AIR & WATER COOLED PRESSURIZED CAMERA HOUSING

internal overheating due to irradiation



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

ACQ07X003



Integrated Full HD IP camera for industrial application with varifocal lens 2,8-12mm. 1/2.7" CMOS sensor 1920x1080 pixel. Sensitivity: 0.25Lux(color) / 0.5Lux(B/W). 76dB WDR. Multiple streaming up to 1920x1080@30ips. H.264 e M-JPEG. Special functions: Day&Night, AES, fixed shutter, White balance, Noise reduction, BLC, Defog, Privacy masking, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AlSl304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar - 3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box IN 96-264Vac 50/60Hz made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing, consisting of power supply cable L=1,5m with galvanized steel wire braided sheath included.

ACQ07X004

ACQ07X005



Complete industrial High Definition IP camera system with varifocal lens 5-60 mm F1.6 IR. Other characteristics as ACQ07X003.

Integrated Low Light Full HD IP camera for industrial application with varifocal lens 2,8-12mm. 1/2.8" CMOS sensor 1920x1080 pixel (2MP). Sensitivity: 0.0069Lux(color) / 0.0008Lux(B/W). 120dB WDR. Multiple streaming up to 1920x1080@60fps. H.264 e M-JPEG. Special functions: Day&Night, AES, fixed shutter, White balance, Noise reduction, SNR, BLC, Defog, Privacy masking 8 areas, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AISI304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar - 3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box IN 96-264Vac 50/60Hz made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing, consisting of power supply cable L=1,5m with galvanized steel wire braided sheath included.

ACQ07X006

ACQ07X007A



Integrated Low Light Full HD IP camera for industrial application with varifocal lens 5-60mm. Other characteristics as ACQ07X005.

Complete industrial camera system with varifocal lens DC Auto Iris 2,8-12mm F1.4 IR. 2MP camera with progressive CMOS sensor 1/2.9" and Wise Net HD+ functionality. 1000HTVL, Full HD over coax (1920x1080p resolution @30fps). Min illumination: 0.15Lux (F1.2, 50IRE), 0.09Lux (F1.2, 30IRE), B/W: 0.015Lux (F1.2, 50IRE), 0.009Lux (F1.2, 30IRE). Video output: BNC (AHD, CVBS selectable). Day&Night, D-WDR, SSNR4, De-Fog, Motion Detection, etc. Supplied inside ACQUATEC IP66 housing with pressurized air cooling system (Tin<35°C @1Bar - 3Nm3/h), designed for temperatures up to 90°C. Equipped with air barrier function for lens cleaning. Realized in stainless steel AlSI304. Air circuit connections: 1x1/4"M-BSPP in nickel-plated brass. Requires the use of air filter group model GFATEC. The housing is supplied complete with wall mounting bracket with swivel joint and IP66 junction box complete with selectable terminal for power input, "ELPRO" for input and output video signal, BNC socket for local video service, switching power supply 96-264Vac 50/60Hz 12Vcc 15W. Supplied with short circuit protection. Interconnection kit from camera to junction box consisting of power supply cable and coaxial cable for video signal, L=1,5m, with galvanized steel wire braided sheath included

ACQ07X008A

Complete industrial camera system with varifocal lens DC Auto Iris 5-60 mm F1.6 IR. Other characteristics as ACQ07X007A.

AIR & WATER COOLED PRESSURIZED CAMERA HOUSING

ACQ07X0P3



ACQ07X0P4

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

Integrated Full HD IP camera for industrial application with varifocal lens 2,8-12mm. 1/2.7" CMOS sensor 1920x1080 pixel. Sensitivity: 0.25Lux(color) / 0.5Lux(B/W). 76dB WDR. Multiple streaming up to 1920x1080@30ips. H.264 e M-JPEG. Special functions: Day&Night, AES, fixed shutter, White balance, Noise reduction, BLC, Defog, Privacy masking, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AISI304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar -3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box PoE IEEE 802.3af, made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing L=1,5m with galvanized steel wire braided sheath included.

Integrated Full HD IP camera for industrial application with varifocal lens 5-60mm. 1/2.7" CMOS sensor 1920x1080 pixel. Sensitivity: 0.25Lux(color) / 0.5Lux(B/W), 76dB WDR, Multiple streaming up to 1920x1080@30ips, H.264 e M-JPEG, Special functions; Day&Night, AES, fixed shutter, White balance, Noise reduction, BLC, Defog, Privacy masking, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AlSl304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar - 3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box PoE IEEE 802.3af, made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing L=1,5m with galvanized steel wire braided sheath included.

ACQ07X0P5



ACQ07X0P6

Integrated Low Light Full HD IP camera for industrial application with varifocal lens 2,8-12mm. 1/2.8" CMOS sensor 1920x1080 pixel (2MP). Sensitivity: 0.0069Lux(color) / 0.0008Lux(B/W), 120dB WDR, Multiple streaming up to 1920x1080@60fps, H.264 e M-JPEG, Special functions: Day&Night, AES, fixed shutter, White balance, Noise reduction, SNR, BLC, Defog, Privacy masking 8 areas, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AISI304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar - 3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box PoE IEEE 802.3af, made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing L=1,5m with galvanized steel wire braided sheath included.

Integrated Low Light Full HD IP camera for industrial application with varifocal lens 5-60mm. 1/2.8" CMOS sensor 1920x1080 pixel (2MP). Sensitivity: 0.0069Lux(color) / 0.0008Lux(B/W). 120dB WDR. Multiple streaming up to 1920x1080@60fps. H.264 e M-JPEG. Special functions: Day&Night, AES, fixed shutter, White balance, Noise reduction, SNR, BLC, Defog, Privacy masking 8 areas, Image mirror/flip. Protected inside ACQUATEC housing, designed for continuous operation up to 400°C. Realized in AISI304 stainless steel, with water and compressed air cooling system (Tin<35°C @1Bar - 3Nm3/h) and special air barrier which keeps the lens clean. Interconnections air circuit 1x1/4"M-BSPP sv.60° in nickel plated brass. It requires compressed air instrumentations, available with the use of GFATEC filter group (not included). Complete with mounting bracket with swivel joint and junction box PoE IEEE 802.3af, made of Aluminum, IP66. Equipped with short circuit protection, interconnection kit between JBX and camera housing L=1.5m with galvanized steel wire braided sheath included.

AIR & WATER COOLED PRESSURIZED CAMERA HOUSING

ACQ07X100



ACQ07X110

ACQ07X200

ACQ07X210



ACQ07X220

ACQ07X300

ACQ07X900

ACQ07X901

ACQ07G004 ACQ07G100

07H001

07H002

07H003

07H004

07H005

07H008

07H009

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 400°C

Pressurized camera housing ACQUATEC series IP66 with power supply max 24Vac, designed for continuous operation with high temperatures up to 400°C, water and air compressed cooled (Tin<35°C @1Bar - 3Nm³/h), Max camera's dimensions: Ø90 mm x 320 mm. Minimum optical focal to be used without interception: 3.5 mm (1/3"). Realized in Stainless Steel AISI304.

Interconnection with air circuit 1x1/4" M-BSPP flared 60°, in nickel-plated brass. The device requires the use of compressed air, through the filtering group GFATEC. Completed with anti-condensation resistance and 24Vac heating.

Pressurized camera housing ACQUATEC designed for continuous operation with high temperatures up to 90°C, with compressed air cooled circuit (Tin<35°C). Further characteristics as ACQ07X100.

Pressurized camera housing ACQUATEC series IP66, with special dust and infrared protection glass. Other characteristics as ACQ07X100.

Pressurized camera housing ACQUATEC IP66, designed for continuous operation with high temperatures up to 90°C, with compressed air cooled circuit (Tin<35°C @1Bar - 3Nm³/h) and special barrier of air blade for crystal's protection. Further characteristics as ACQ07X100.

Pressurized camera housing ACQUATEC IP66 for cameras with power supply max 24Vac, designed for continuous application with high temperature up to 400°C, with water cooling system. Equipped with borosilicate frontal glass and special anti-infrared filter. Internal available dimensions: Ø90 x 320mm. Minimal optic usable without interception: 3,5mm (1/3"). Realized in Stainless steel AISI304.

Pressurized camera housing ACQUATEC IP67, large version, designed for continuous operations up to 400°C. Water and compressed air cooled. Usable front window; Ø110mm, thickness: 5mm. Internal available dimensions: 116x116x485 mm. Realized in electro-polished Stainless Steel AISI316L. Weight: 18Kg, Water fitting 2x1/2" F-BSPP, air 1/4" F-BSPP. Cables entry: 2 M20x1,5. Air filtration unit series GFATEC is requested.

Pressurized camera housing made of Stainless Steel AlSI304 for industrial use. External diameter max 129 mm, length 250 mm. Cable inlet 1x1/2" F-BSPP.

Pressurized camera housing with compressed air and water circuit (Tin<35°C @1Bar - 3Nm3/h), Dimensions; internal Ø90x220 mm, external Ø150x250 mm. Minimum optical focal to be used without interception: 3,5 mm (1/3"). Realized in Stainless Steel AISI304. Interconnection with air circuit 1x1/4" M-BSPP flared 60°, water 2x1/2" M-BSPP flared 60° in nickel-plated brass. Requires the use of compressed air, through the filtering group GFATEC. Cables entrance 2x1/2" F-BSPP. Cable glands excluded.

Wall mounting bracket for ACQUATEC and SONDATEC housing, realized in Stainless Steel AISI304.

Joint bracket for ACQUATEC and SONDATEC housing, realized in Stainless Steel AISI304. Allows a wide range of vertical and horizontal position.

Transparent glass window, diameter 65 mm, thickness 3 mm.

Metallic glass window, diameter 65 mm, thickness 3 mm.

Transparent level glass, diameter 74 mm, thickness 3 mm.

Frontal filter Heat resistant and Heat reflecting Diam. 65 mm sp. 1 mm.

Quartz protection glass, high temperature resistant, diameter 65 mm, thickness 1 mm.

Borofloat window for ACQ07X300 housing series. Diameter 123mm, thickness 5mm. Usable diameter 110mm.

Borofloat window resistant up to 400°C. Diameter 65mm, thickness 3mm.

AIR & WATER COOLED PRESSURIZED CAMERA HOUSING





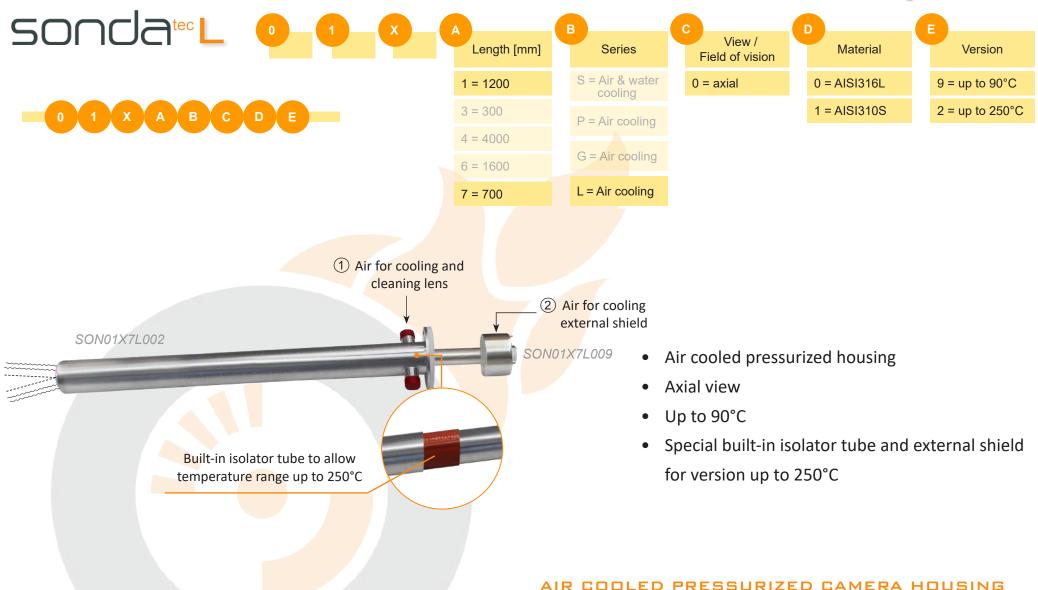






► HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C / 250°C

Product code configuration table







SON01X7L002



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C / 250°C

Camera housing SONDATEC L series for CAMTEC cameras, designed for continuous operation with high temperature up to 250°C, air cooled, equipped with built-in isolator tube and external shield. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by Stainless Steel AISI316L. Diameter: 45mm, length: 700mm. Penetration max 500mm.



SON01X7L009



Camera housing SONDATEC L series for CAMTEC cameras, designed for continuous operation with high temperature up to 90°C, air cooled. Axial vision, allows the use of lens with diagonal angle of view up to 68°. Made by Stainless Steel AISI316L. Diameter: 45mm, length: 700mm. Penetration max 500mm.



CAM12X7L7



CAM12X7L7T

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C / 250°C

Industrial IP camera with high temperature lens 68° (diagonal angle) used with SONDATEC L series, axial vision. Length=700mm. Progressive CMOS 1/4" sensor, f=3.7mm, resolution up to 1280x720 pixels @ 30fps. Configuration of parameters through web server. It requires control unit and separate power supply, available in local JBX or CABTEC. Supplied with bracket and flange integrated with air cooling system. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING OF THE CAMERA.

Industrial IP camera with high temperature lens 68° (diagonal angle) used with SONDATEC L series, axial vision. Length=700mm. Progressive CMOS 1/4" sensor, f=3.7mm, resolution up to 1280x720 pixels @ 30fps. Configuration of parameters through web server. It requires control unit and separate power supply, available in local JBX or CABTEC. Supplied with bracket and flange integrated with air cooling system. Complete with temperature sensor Pt100. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING OF THE CAMERA.

AIR COOLED PRESSURIZED CAMERA HOUSING



NEW

CAM12X3H0N



CAM12X3H2N

CAM12X3H3N

CAM12X3H6N

HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C

IP industrial camera supplied with assembled high temperature varifocal lens 3,6-18mm (diagonal angle: 78°/18°, H: 72°/16°, V: 44°/9°), to be used with SONDATEC series "H", L=350mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power supply PoE IEEE 802.3af Class2, 3.2W consumption. Complete with AISI316L M20 cablegland. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING FOR THE CAMERA.

IP industrial camera supplied with assembled high temperature lens 4mm (diagonal angle: 74°, H: 66°, V: 40°), to be used with SONDATEC series "H", L=350mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power supply PoE IEEE 802.3af Class2, 3.2W consumption. Complete with AISI316L M20 cablegland. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING FOR THE CAMERA.

IP industrial camera supplied with assembled high temperature lens 2,8mm (diagonal angle: 94°, H: 86°, V: 55°), to be used with SONDATEC series "H", L=350mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power supply PoE IEEE 802.3af Class2, 3.2W consumption. Complete with AISI316L M20 cablegland. THE PRICE INCLUDES ASSEMBLING, SETTING AND SPECIAL PROGRAMMING FOR THE CAMERA.

IP industrial camera supplied with assembled high temperature varifocal lens 10-50mm (diagonal angle: 78°/18°, H: 72°/16°, V: 44°/9°), to be used with SONDATEC series "H", L=350mm. 1/3" CMOS sensor with Full HD 1920x1080 pixel resolution @30fps. Min. illumination: 0.65Lux (Color), 0.15Lux (Day/Night). Removable IR cut filter for low light application also. Configuration through web browser and PC (not included). Triple compression: MJPEG, MPEG-4, H.264. Power supply PoE IEEE 802.3af Class2, 3.2W consumption. Complete with AISI316L M20 cablegland. THE PRICE INCLUDES ASSEMBLING. SETTING AND SPECIAL PROGRAMMING FOR THE CAMERA.





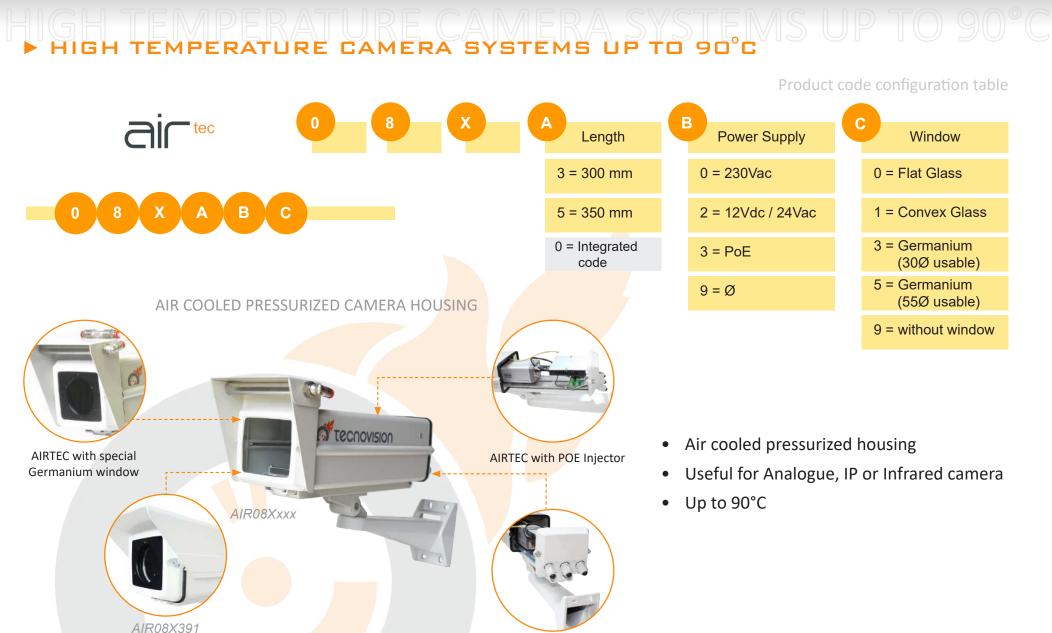
SON01X3H00



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C

SONDATEC housing "H" series suitable for high dust environments designed for CAMTEC cameras 12X3H-N. Suitable for use with temperature up to 90°C, air cooled. Axial vision, for lens up to 94° diagonal angle of view. Made by Stainless Steel AlSI316L. Diameter: 101,6mm, length: 350mm.

AIR COOLED PRESSURIZED CAMERA HOUSING



AIR COOLED PRESSURIZED CAMERA HOUSING



HIGH TEMPERATURE CAMERA SYSTEMS UP TO 90°C

AIR08X007



Complete industrial camera system with varifocal lens DC Auto Iris 2,8-12mm F1.4 IR. 2MP camera with progressive CMOS sensor 1/2.9" and Wise Net HD+ functionality. 1000HTVL, Full HD over coax (1920x1080p resolution @30fps). Min illumination: 0.15Lux (F1.2, 50IRE), 0.09Lux (F1.2, 30IRE), B/W: 0.015Lux (F1.2, 50IRE), 0.09Lux (F1.2, 30IRE). Video output: BNC (AHD, CVBS selectable). Dayn&Night, D-WDR, SSNR4, De-Fog, Motion Detection, etc. Supplied inside AIRTEC housing with pressurized air circuit, designed for temperatures up to 90°C, with compressed air cooling circuit (Tin<35°C @1Bar - 3Nm3/h). Equipped with air barrier function for lens cleaning. Material: die-cast aluminum. Air circuit connections: 1x1/4"M-BSPP in nickel-plated brass. Requires the use of air filter group model GFATEC. Supplied complete with wall mounting bracket with swivel joint and IP66 junction box complete with selectable terminal for power input, "ELPRO" for input and output video signal, BNC socket for local video service, switching power supply 96-264Vac 50/60Hz 12Vcc 15W. Supplied with short circuit protection. Interconnection kit from camera to junction box consisting of power supply cable and coaxial cable for video signal, L=1,5m, with galvanized steel wire braided sheath included.

AIR08X008

AIR08X300



Complete industrial camera system with varifocal lens DC Auto Iris 5-60 mm F1.6 IR. Other features as AIR08X007.

supply 12Vdc/24Vac for heater and thermostat, Other features as AIR08X300.

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x300 mm. Flat glass window: 80x70 mm. Power supply 230Vac for heater and thermostat. Compressed air cooling circuit: interconnection 1x1/4"M-BSPP. Temp. IN <35°C, pressure IN from 0.5bar to 1bar max. Requires the use of air quality instrumentation, available through GFATEC filter assembly series. Designed to operate in dusty environments. Cable glands No. 3 M16x1.5. Die-cast and extruded aluminum body. Opening slide and hang system. Color white RAL9002. IP66. Supplied with air barrier and wall mounting brackets.

AIR08X320

AIR08X329













Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x300 mm. Flat glass window: 80x70 mm. Power

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x300 mm. Supplied without window. Power supply 12Vdc/24Vac for heater and thermostat. Other features as AIR08X300.

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x300 mm. Convex glass window: 80x70 mm. Other features as AIR08X300.

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x350 mm. Flat glass window: 80x70 mm. Power supply 230Vac for heater and thermostat. Other features as AIR08X300.

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x350 mm. Flat glass window: 80x70 mm. Power supply 12Vdc/24Vac for heater and thermostat. Other features as AIR08X300.

Pressurized camera housing for temperature up to 90°C. Internal available dimensions: 105x86x350 mm. Supplied without window. Power supply 12Vdc/24Vac for heater and thermostat. Other features as AIR08X300.

Pressurized camera housing with PoE+ splitter for temperature up to 90°C. Internal available dimensions: 105x86x350 mm. Flat glass window: 80x70 mm. Power supply PoE+: 30W (IEEE 802.3at) input: 36-57Vdc - output: 12Vdc for camera, heater and thermostat. Other features as AIR08X300.



or



- External wall mounted
- Self protected
- Conical hole required



- Inside type with retraction device
- Mounting solutions: axial or inclined
- Self protected
- Axial hole required
- Wide angle of view available

*Depending of the application may be not required.

PROTECTION DEVICES



OUT03X100



Fixing and protection device for SONDATEC housing for furnace wall, complete with shutter and high temperature pneumatic cylinder. Water cooled with air barrier circuit. Made by Stainless Steel AlSl304. Provided with insulator panel to be interjected on the wall and flexible tube for connection with housing, length 1m.

OUT03X200



Fixing and protection device for SONDATEC housing for furnace wall, complete with shutter and high temperature pneumatic cylinder. Air compressed cooled with air barrier circuit. Made by Stainless Steel AISI304. Complete with insulator panel.

OUT03X400



Protective device and mounting enclosures for SONDATEC 2.0 complete with locking flap controlled by a pneumatic cylinder in case of absence of air. Circuit for cooling water and compressed air barrier dam. Made by Stainless Steel AISI304.

03A034A0

Thermal insulation panel Te=1260 in sheet KAOWOOL, thickness= 10 mm for OUTEC version.

03A035A0

Thermal insulation pannel made by KAOWOOL for temperarture up to 1260°C. Thickness 10mm. To be fit between OUTEC 2.0 and furnace wall.







On board air circuit pipes

Fittings

1 = PA11

1 = AISI316L

2 = Cu

2 = Nichel

INTEC02X16211

Advancement/withdrawal system for periscope device, with pneumatic actuator (ride: 600mm) provided with:

9 = 900 mm

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting overlying the actuator.
- Pneumatic cylinder with slide to support SONDATEC.
- Pneumatic circuit on board realized with pipes made of PA11.
- Fittings for external pipes for hydraulic and pneumatic circuit made of AISI316L.

INTEC02X18122

Advancement/withdrawal system for SONDATEC 2.0 series, with pneumatic actuator (ride: 800mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting overlying the actuator.
- Pneumatic cylinder with slide to support SONDATEC;
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

INTEC02X19311

Advancement/withdrawal system for SONDATEC "S" series, with pneumatic actuator (ride: 900mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting overlying the actuator.
- Pneumatic cylinder with slide to support SONDATEC "S";
- Pneumatic circuit on board realized with pipes made of PA11.
- Fittings for external pipes for hydraulic and pneumatic circuit made of AISI316L.

INTEC DEVICES





INTEC02X26422

INTEC02X28122





INTEC02X68122

02A041A0

PROTECTION DEVICES & CONTROL CABINETS

Advancement/withdrawal system for integrated SONDATEC P series, with pneumatic actuator (ride: 600mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting below the actuator.
- Pneumatic cylinder with slide to support SONDATEC;
- Fan air connection for pneumatic actuator cooling function.
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

Advancement/withdrawal system for SONDATEC 2.0 series, with pneumatic actuator (ride: 800mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting below the actuator.
- Pneumatic cylinder with slide to support SONDATEC;
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

Advancement/withdrawal system for SONDATEC "S" series, with pneumatic actuator (ride: 800mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting below the actuator.
- Pneumatic cylinder with slide to support SONDATEC "S";
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

Advancement/withdrawal system for high temperature up to 80°C for SONDATEC 2.0 series, with pneumatic actuator (ride: 800mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting below the actuator.
- Pneumatic cylinder with slide to support SONDATEC;
- Fan air connection for pneumatic actuator cooling function.
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

High temperature up to 80°C advancement/withdrawal system for vertical installation of SONDATEC 2.0 series, with double pneumatic actuator (ride: 800mm) provided with:

- Self supporting framework with rails and porthole plate to fixing to furnace/boiler wall. Made in carbon steel varnished with epoxy pre-treatment 60µm and painting with polyester 60µm; Probe mounting overlying the actuator.
- Double pneumatic cylinder with slide to support SONDATEC;
- Fan air connection for pneumatic actuator cooling function.
- Pneumatic circuit on board realized with pipes made of Cu.
- Fittings for external pipes for hydraulic and pneumatic circuit made of Nichel.

Thermal insulation panel in sheet KAOWOOL, thickness= 10 mm for INTEC version.

INTEC DEVICES

tec

PROTECTION DEVICES & CONTROL CABINETS



0

CODES TABLE OF OBLO' FOR INTEC PROTECION DEVICES

2

D

A

0 = fan air

1 = compressed air

2 = no air barrier

Air barrier Sensor

0 = Thermostat

T = PT100

W = PT100 + Thermostat

N = no temperature sensor

Type of mounting (back view)

0 = with left flange

1 = with right flange (as our standard)

2 = without flange

3 = special mounting

4 = pneumatic shutter door

Type of housing

1 = Sonda 2.0

2 = Periscope

3 = Sonda "S"

4 = Sonda "P"

OBLO02D0013

OBLO02D0T01

OBLO02D0T21

NEW

OBLO02D0W11

OBLO02D1034

OBLO02D1T33

OBLO02D2N41

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter, centralizing ring and flange for air connection on right side. Special mounting, entirely made of stainless steel AISI304. Complete with thermostat. Flange on right side. Designed for "S" Sondatec.

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter, centralizing ring and flange for air connection 3" ANSI – 150RF on left side. Entirely made of stainless steel AlSi304. Complete with Pt100 temperature sensor. Suitable for Sondatec 2.0.

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter and centralizing ring. Complete with Pt100 temperature sensor. Suitable for Sondatec 2.0.

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter, centralizing ring and flange for air connection 3" ANSI – 150RF on right side. Entirely made of stainless steel AISI304. Complete with temperature sensor PT100 and thermostat. Suitable for Sondatec 2.0.

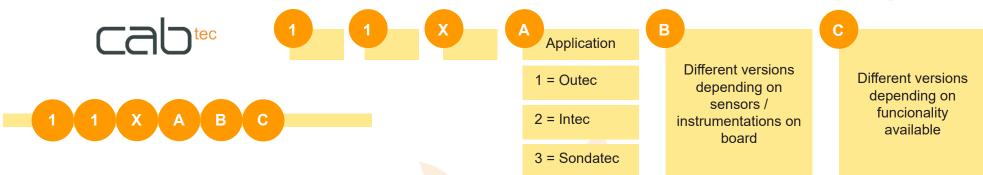
Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter, centralizing ring and flange for air connection. Special mounting, entirely made of stainless steel AISI304. Complete with thermostat. Suitable for Intec device with Sondatec P.

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with mechanical shutter, centralizing ring and flange for air connection. Special mounting, entirely made of stainless steel AISI304. Complete with temperature sensor PT100. Suitable for Intec device with Sondatec S.

Protective porthole for closing/opening in the furnace/boiler to be positioned on the counter plate, with pneumatic shutter door. Entirely made of stainless steel AISI304. Complete with electrovalve. Supplied mounted on INTEC device. Suitable for Sondatec 2.0.

INTEC DEVICES - OBLO'

Product code configuration table



*for control cabinets made of GRP you have to add "P" at the end of the code.



- Management and control of Outec or Sondatec products
- Air & Water cooling
- On Screen Display module available
- Portable solution available





CAB11X101AP



PROTECTION DEVICES & CONTROL CABINETS

Control cabinet with logic controller for OUTEC device, IP solution. Supplied with the following instrumentations:

- Logic controller with display;
- Double stage air filtration unit with dual pressure control valve with gauge;
- Air pressostat switch;
- Electrovalve for open/close control of OUTEC shutter;
- Water flow meter with integrated temperature sensor;
- Camera temperature sensor management;
- Front panel push buttons and signals led's;

Cabinet includes RJ45 sockets for Ethernet cable.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings outside cabinet are 1/2" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimension: 800x500x200mm. Power requirements: 96-264Vac 50/60Hz. Operating temperature: +5°/55°C.



CAB11X101AM

Control cabinet with logic controller for OUTEC device, IP solution. Supplied with the following instrumentations:

- Logic controller with display;
- Double stage air filtration unit with dual pressure control valve with gauge;
- Air pressostat switch;
- Electrovalve for open/close control of OUTEC shutter;
- Water flow meter with integrated temperature sensor;
- Camera temperature sensor management;
- Front panel push buttons and signals led's;

Cabinet includes RJ45 sockets for Ethernet cable. Includes software version for Modbus communication.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings outside cabinet are ½" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimension: 900x500x200mm. Predisposed for switch/FO box containment. Power requirements: 96-264Vac 50/60Hz. Operating temperature: +5°/55°C.



CAB11X101C

Control cabinet with logic controller and OSD module for OUTEC device. Supplied with the following instrumentations on board:

- Logic controller with display
- On Screen Display module for alarm signal
- Double stage air filtration unit with dual pressure control valve with gauge
- Air pressostat switch
- Electrovalve for open/close control of OUTEC shutter
- Water flow meter with integrated temperature sensor
- Water temperature sensor
- Camera temperature sensor management
- Front panel push buttons and signals led's

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings IN/OUT M-BSPP sv.60°.

Double cabinet in painted RAL7035 steel, IP66, dimension: 800x500x200mm. Power requirements 90-256Vac 50/60Hz. Operating temperature: +5°/55°C





CAB11X101DP



PROTECTION DEVICES & CONTROL CABINETS

Control cabinet with logic controller for OUTEC device, IP solution. Supplied with the following instrumentations:

- Logic controller with display;
- Double stage air filtration unit with dual pressure control valve with gauge;
- Air pressostat switch;
- Electrovalve for open/close control of OUTEC shutter;
- Water flow meter (without display);
- Water temperature sensor;
- Camera temperature sensor management;
- Relav alarm module:
- Front panel push buttons and signals led's;

Cabinet includes RJ45 sockets for Ethernet cable.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings IN/OUT 1/2" M-BSPP, sv.60°.

Double cabinet in painted RAL7035 steel, IP66, dimension: 800x500x200mm. Power requirements: 96-264Vac 50/60Hz. Operating temperature: +5°/55°C.

CAB11X101DR



Control cabinet with logic controller for OUTEC device, IP solution. Supplied with the following instrumentations:

- Logic controller with display;
- Double stage air filtration unit with dual pressure control valve with gauge;
- Air pressostat switch:
- Electrovalve for open/close control of OUTEC shutter;
- Water flow meter (without display);
- Water temperature sensor;
- Camera temperature sensor management;
- Relay alarm module;
- Front panel push buttons and signals led's;

Cabinet includes RJ45 sockets for Ethernet cable. Predisposed for switch and FO box containment.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings IN/OUT 1/2" M-BSPP, sv.60°.

Double cabinet in painted RAL7035 steel, IP66, dimension: 900x500x200mm. Power requirements: 96-264Vac 50/60Hz. Operating temperature: +5°/55°C

CAB11X105FP



Control cabinet for 2 OUTEC devices. Supplied with the following instrumentations:

- Double stage air filtration unit with dual pressure control valve with gauge
- Double air pressostat switch
- Double electrovalve for open/close control of OUTEC shutter
- Double water flow meter with display
- Double water temperature sensor (Pt100 / Pt1000)
- Double camera temperature sensor management
- 2IN analog expansion module + further 2IN analog expansion module
- Front panel push buttons and signals led's

Cabinet includes power supply module and Ri45 sockets for Ethernet cable.

Water pipes are made by copper and air pipes in Rilsan Pa11. Fittings outside cabinet are ½" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimension 800x500x200mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C.



CAB11X202AP







CAB11X292GP

PROTECTION DEVICES & CONTROL CABINETS

Control cabinet with logic controller for INTEC device. Supplied with the following instrumentations:

- Logic controller with display
- Double stage air filtration unit with dual pressure control valve with gauge
- Air pressostat switch
- Electrovalve for insertion/extraction camera
- Air Reservoir
- Water digital flow meter
- Water temperature sensor (Pt100 / Pt1000)
- Camera temperature sensor management
- Additional input / relay module
- Front panel push buttons and signals led's

Cabinet includes RJ45 sockets for Ethernet cable.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings outside cabinet are 1/2" M-BSPP.

Double cabinet as painted RAL7035 steel, IP66, dimensions 1200x500x310mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C.

Control cabinet with logic controller for INTEC device. Supplied with the following instrumentations:

- Logic controller with display
- Double stage air filtration unit with dual pressure control valve with gauge
- Air pressostat switch
- Electrovalve for insertion/extraction camera
- Air Reservoir
- Camera temperature sensor management
- 2-In analogue expansion module
- Further 2-In analogue expansion module
- Front panel push buttons and signals led's

Cabinet includes RJ45 sockets for Ethernet cable. Water pipes in copper and air pipes in Rilsan Pa11.Fittings outside cabinet are ½" M-BSPP. Double cabinet as painted RAL7035 steel, IP66, dimensions 1200x500x310mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C.

Control cabinet with logic controller for INTEC device. Supplied with the following instrumentations:

- Logic controller with display
- Double stage air filtration unit with dual pressure control valve with gauge
- Pressure air switch
- Electrovalve for insertion / extraction camera
- Air Reservoir
- Water digital flow meter (without display)
- Water temperature sensor (Pt100/Pt1000)
- Cabinet heater
- Camera temperature sensor management
- Intec oblò temperature sensor management
- Front panel push buttons and signals led's

Cabinet includes power supply module and RJ45 sockets for Ethernet cable. Water pipes in copper and air pipes in Rilsan Pa11. Fittings outside cabinet are ½" M-BSPP. Double cabinet as painted RAL7035 steel, IP66. Dimensions: 1200x500x310mm. Power requirements: 90-256Vac 50/60Hz. Operating temperature: +5°/55°C.



CAB11X306AP



PROTECTION DEVICES & CONTROL CABINETS

Control cabinet with logic controller for camera CAMTEC and SONDATEC device. Supplied with the following instrumentations:

- Logic controller with display and 2-in analogue expansion module
- Double stage air filtration unit with pressure control valve with gauge
- Air pressostat switch
- Water flow meter
- Water temperature sensor (PT100/PT1000)
- Temperature camera sensor management

Power presence and alarm signals led's on front cabinet door. Rj45 socket for Ethernet cable.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings outside cabinet are ½" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimensions 800x500x200mm. Power requirements 90-256Vac 50/60Hz. Operating temperature: +5°/55°C.

CAB11X306B



Control cabinet with logic controller for camera CAMTEC and SONDATEC device. Supplied with the following instrumentations:

- Logic controller with display
- On Screen Display function for signalling and alarm info over video signal
- Double stage air filtration unit with pressure control valve with gauge
- Air pressostat switch
- Water flow switch
- Water temperature sensor
- Temperature camera sensor management

Power presence and alarm signals led's on front cabinet door

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings outside cabinet are ½" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimensions 800x500x200mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C.

CAB11X304E



Control cabinet for two CAMTEC cameras and SONDATEC devices. Supplied with the following instrumentations:

- Pressure regolator
- Double stage air filtration unit with pressure control valve with gauge
- Double Air pressostat switch
- Water flow switch (W/Display)
- Water temperature sensor (4-20mA)

Power presence and alarm signals led's on front cabinet door.

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings IN/OUT cabinet M-BSPP sv.60°.

Double cabinet in painted RAL7035 steel, IP66. Dimensions: 800x500x200 mm. Power requirements 90-256 Vac 50/60 Hz.

Operating temperature: +5°C/55°C.



CAB11X307A

PROTECTION DEVICES & CONTROL CABINETS

Control cabinet with logic controller for camera CAMTEC and SONDATEC device. Supplied with the following instrumentations:

- Logic controller with display and 2-in analogue expansion module
- Double stage air filtration unit with pressure control valve with gauge
- Air / N2 Flow meter with flow regulator
- Water flow meter
- Water temperature sensor (PT100/PT1000)
- Temperature camera sensor management

Power presence and alarm signals led's on front cabinet door.

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings outside cabinet are 1/2" M-BSPP.

Compact cabinet in painted RAL7035 steel, IP66, dimensions: 800x500x200mm. Power requirements 90-256Vac 50/60Hz. Operating temperature: +5°/55°C.

CAB11X388H



Control cabinet designed for the management of n°2 Acquatec housings with frontal flange equipped with pneumatic protection. Supplied with the following instrumentations:

- Logic controller with display
- Double stage air filtration unit with dual pressure control valve with gauge
- Air pressure switch
- Double water temperature sensor (Pt100 / Pt1000)
- Front panel push buttons with LED for network presence indication, and functions selector.

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes are made by copper and air pipes in Rilsan Pa11. Water fittings IN/OUT 1/2" M-BSPP, air 3/8" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimensions: 700x500x200mm. Power requirements: 90-256Vac 50/60Hz. Operating temperature: +5°/55°C.

CAB11X392G



Control cabinet for two CAMTEC cameras and SONDATEC devices. Supplied with the following instrumentations:

- Pressure regolator
- Double stage air filtration unit with dual pressure control valve with gauge
- Double pressure air switch
- Double water flow switch (without display)
- Double water temperature sensor (Pt100/Pt1000)
- Camera temperature sensor management
- Digital logic module with display / Ethernet
- 2 IN analog expansion module
- Further 2 IN analog expansion module

Power presence and alarm signals led's on front cabinet door.

Cabinet includes power supply module and coaxial cable connector "ELPRO", with local BNC socket for local video test.

Water pipes in copper and air pipes in Rilsan Pa11. Fittings IN/OUT cabinet M-BSPP sv.60°. Double cabinet in painted RAL7035 steel, IP66. Dimensions: 800x500x200 mm. Power requirements 90-256Vac 50/60Hz. Operating temperature: +5°C/55°C.

FOR DIFFERENT MODELS FROM THE VALUES DETAILED. REFER TO THE FOLLOWING TABLE.





CAB11X400A



PROTECTION DEVICES & CONTROL CABINETS



Control cabinet designed for portable solutions / mobile inspections with logic controller for camera CAMTEC and SONDATEC device. Supplied with the following instrumentations:

- Logic controller with display and 2-in analogue expansion module
- Double stage air filtration unit with pressure control valve with gauge
- Air pressostat switch
- Water flow meter
- Water temperature sensor (PT100/PT1000)
- Temperature camera sensor management
- Main unit of control camera

Power presence, alarm signals and alarm buzzer led's on front cabinet door. Cabinet includes power supply module.

Water pipes in copper and air pipes in Rilsan Pa11. Water fittings outside cabinet 2x1/2" M-BSPP, air 3/8" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimensions: 1100x400x250mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C. Supplied on a special trolley for easy movements

Control cabinet designed for portable solutions / mobile inspections with logic controller for camera CAMTEC and SONDATEC device. Supplied with the following instrumentations:

- Logic controller with display and 2-in analogue expansion module
- Double stage air filtration unit with pressure control valve with gauge
- Air pressostat switch
- Water flow meter
- Water temperature sensor (PT100/PT1000)
- Temperature camera sensor management
- Main units of control cameras

Power presence, alarm signals and alarm buzzer led's on front cabinet door. Cabinet includes power supply module.

Water pipes in copper and air pipes in Rilsan Pa11. Water fittings outside cabinet 2x1/2" M-BSPP, air 3/8" M-BSPP.

Double cabinet in painted RAL7035 steel, IP66, dimensions: 1100x400x250mm. Power requirements 90-256Vac 50/60Hz. Operating temperature +5°/55°C. Supplied on a special trolley for easy movements









			PRESSURE REGOLATOR WITH GAGE	DUAL PRESSURE REGOLATOR WITH TWO GAGES	TWO STAGES AIR FILTER	AIR / N2 FLOW METER WITH FLOW REGOLATOR	PRESSURE AIR SWITCH	2 WAY ELECTROVALVE	5 WAY ELECTROVALVE	H2O FLOW SWITCH (ON/OFF)	H2O FLOW SWITCH WITH VISIBLE LEVEL (ON/OFF)	H2O FLOW METER (WITHOUT DISPLAY)	H2O FLOW METER (WITH DISPLAY)	H2O THERMOSTAT	H2O TEMPERATURE SENSOR (PT100 / PT1000)	H2O TEMPERATURE SENSOR (4-20 mA)	CABINET HEATER	CAMERA TEMPERATURE SENSOR MANAGEMENT	INTEC OBLO' TEMPERATURE SENSOR MANAGEMENT	DIGITAL LOGIC MODULE WITH DISPLAY / ETHERNET	2 IN ANALOGUE EXPANSION MODULE	FURTHER 2 IN ANALOGUE EXPANSION MODULE	ADDITIONAL INPUT / RELAY MODULE	OSD MODULE	CAMERA MAIN UNIT	RJ45 SOCKETS FOR ETHERNET CABLE	PREDISPOSED FOR SWITCH /FOBOX	USB SERVER	SW FOR MODBUS COMMUNI- CATION
		CAB11X100L		Χ	Х		X	Χ		Χ				Χ						Χ									
		CAB11X101A		X	X		X	X				X			X			Χ		X	X								
		CAB11X101AP		Х	Х		Х	Х				Х			Х			X		X						X			
		CAB11X101AR		X	Х		X	X				X			X			X		X						X	Х		
		CAB11X101AM		X	X		X	X				X			X			X		X						X	X		Χ
		CAB11X101B		X	X		X	X				X			X			X		X	Χ		X	Х		,	Λ.		7.
	O	CAB11X101B		X	X		X	X				^	V		×			X		X	X		X	X					
	OUTEC											V	^		^									^					
	5	CAB11X101D		X	X		X	X				X			X			X		X	X		X						
	0	CAB11X101DP		X	X		X	X				X			X			X		X			X			X	.,		
		CAB11X101DR		X	Х		X	Х				X			X			X		X			Х			Х	Х		
		CAB11X101F		X	Χ		X		X			X			Х			X		Χ	Х								
		CAB11X102E		Х	X		X	Х		Χ					Х														
		CAB11X103E		X	X		X	X		X						X													
		CAB11X104F		X	X		X	4					4		4			X		2								4	
		CAB11X105F		X	X		2	2					2		2			2			X	X	X						
		CAB11X200L		Х	Х		Х		Х		Х			X						X									
		CAB11X202A		X	Х		Х		Х			X			Х			Х		X	X								
		CAB11X202AP		X	X		X		Χ			X			Χ			Χ		X	Χ					X			
		CAB11X202PP		Х	Х		Х		Х									Х		Х	Х	Х				Х			
		CAB11X202B		Χ	X		X		Χ			X			Χ			Χ		X	X		X	X					
		CAB11X202D		Х	Х		Х		Х				Х		Х		Х	Х	Х	Х	X	Х	Х	Х					
	INTEC	CAB11X202E			,,		,,						X		X		X	X	,,	X	X		X						
	\leq	CAB11X292G		Х	Χ		Х		Х			Х	,,		X		X	X	Х	X	X	X	,						
		CAB11X292P		X	X		X		X			X			X		X	X	X	X	X	X							
		CAB11X203A		X	X		X		Y			Y			X		X	X		X	X								
		CAB11X203A		X	X		X		X			X			X		X	X	Х	X	X	X	X	Х					
		CAB11X203L		X	X		X		X			X			X		^	^	^	X	X	^	^	^					
				^			^		^			^			^			V		X									
		CAB11X300B	V		V		V	V							V			X			X		X	X					
		CAB11X302B	X		X		X	Χ							X			Х		Х	Χ		Χ	Χ					
		CAB11X303E	X		Χ		Х			Х						Х													
		CAB11X304B	X		X		X						X		Х			Х		X	X		X	X					
		CAB11X304E		X	Χ		2						X			Х													
	O	CAB11X305F										2			2			Х		2	X	Х							
	쁜	CAB11X306A	X		Х		X					Х			Х			X		X	X								
	ζ	CAB11X306AP	X		Χ		X					Х			X			X		X	X					Χ			
	SONDATEC	CAB11X306B	X		X		X					Х			Х			Χ		Χ	X		Χ	Χ					
		CAB11X306E	X		X		X						X		X														
		CAB11X307A	X		X	Χ						Χ			X			X		X	X								
		CAB11X307BP	X			2						2			2			X		X	X	X				X			
		CAB11X310E	X			Х						Х				Х													
		CAB11X320E				X						X				X													
		CAB11X388H	2		2		2		Х									2		Х	Х								
		CAB11X392G		X	X		2					2			2			X		X	X	Χ							
PORT	ABLE	CAB11X400A	X		X		X					X			X			X		X	X	-			X				
SOLU		CAB11X401A	X		X		X					X			X			X		X	X				2				
COLO	.1014	O/ ID I I/ATO I/A										^			^			^		,\	^								

^{*}for control cabinets made of GRP you have to add "P" at the end of the code.

CODES TABLE OF CABTEC DEVICES

Product code configuration table

VERSION

IS IDENTIFIED WITH

FOR CHANGES TO

CLASSIFIED WITH 0

PROGRESSIVE

NUMBERING

1, 2, 3, 4, 5 ...

THE MODEL















1 = HIGH TEMP.
CABLE (Analog

2 = NO HIGH TEMP. CABLE (Analog)

3 = HIGH TEMP. + TEMP. SENS. (Analog)

4 = for CAMTEC "S" + TEMP. SENS.

5 = HIGH TEMP. CABLE (IP)

6 = NO HIGH TEMP. CABLE (IP)

7 = HIGH TEMP. + TEMP. SENS. (IP)

8 = USB SERVER

9 = HIGH TEMP. + 2 TEMP. SENS.

A = Sondatec 1.0 to Cabtec

B = Sondatec 2.0 to Cabtec

C = Sondatec 1.0 + Outec 1.0 to Cabtec**

D = Sondatec 1.0/2.0 + Outec 2.0 to Cabtec

E = Sondatec 2.0 + Intec to Cabtec

F = Sondatec 2.0 to Intec

G = Sondatec 1.0 to Outec 1.0

H = Airtec to JBX

CONNECTIONS

∞

AIR

I = Acquatec (only air) to JBX

WATER J = Acquatec (air+H₂0) to JBX

L = Acquatec 1.0 (air+H₂0)+ Outec 1.0 to Cabtec

M = Cabtec to Intec

N = Cabtec to Outec

O = Sondatec 2.0 + Intec to Cabtec

P = Sondatec P to Intec / Cabtec

Q = Sondatec 05X--- to Intec

W = 1x1/2"FD-FD

Type of **CONDUIT / TERMINATION**

> 0 = Without conduit and termination

1 = GSWB with MIL-Std connector one-side

2 = GSWB with MIL-Std connector two-sides

3 = GSWB without MIL-Std connector

4 = PVC with MII -Std connector one-side

A = GSWB / B

ECTRICAL

Щ

CONN. B = R1 / SS316

WATER C = R1/B∞

AIR D = R1 / SS304

Type of reinforcement: GSWB = Galvanized steel wire braided R1 = Wire braided reinforced

Type of termination: B = Nichel plated brass

LENGTH Cables & Pipes

A = 1 m

B = 2 m

C = 3 m

D = 4 m

E = 5 m

F = 6 m

G = 7 m

H = 8 m

I = 9 m

L = 10 m

M = 11 m

N = 12 m

O = 13 m

P = 14 m

Q = 15 m

S = 17 m

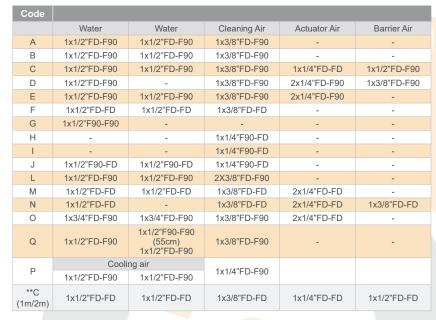
V = 20 m

Z = 21 m

Y = 25 m

W = 1.25 m

CONNECTION KIT



*For air & water connections between Sondatec 1.0+Outec 1.0 to Cabtec ("C") 1m long consider the relevant fittings (**C)





ACCESSORIES

High temperature special cable for video, power and data 1xRG178 + 2x18AWG + 4x22AWG/ST-FEP-GS-BI (price for meter).

Four Cat5e 24AWG Bonded-Pairs solid bare copper conductors, FEP insulation, industrial grade oil and gas resistant, FEP jacket.

Electrical signal interconnection kit cable, composed by high temperature cable consisting of 1 coax RG178 + 2x18AWG + 4x22AWG/ST-FEP-GS-BI with overall shield tinned copper braid. Complete with MIL-STD connector one side. Protected inside a flexible galvanized steel wire braided. Length = 4m.

Electrical signal interconnection kit cable, composed by high temperature cable consisting of 1 coax RG178 + 2x18AWG + 4x22AWG/ST-FEP-GS-BI with overall shield tinned copper braid. Protected inside a flexible galvanized steel wire braided. L = 2m.

Electrical signal interconnection kit cable. Complete with MIL-STD connector one side. Protected inside a flexible galvanized steel wire braided. Length = 2m.

Electrical signal interconnection kit cable, composed by high temperature cable + temperature sensor cable. Complete with MIL-STD connector one-side. Protected inside a flexible galvanized steel wire braided. Length = 10m.

Electrical signal interconnection kit cable for CAMTEC "S & P" series, complete with cable for temperature sensor PT100. Supplied with MIL-STD connector one side. Protected inside a flexible galvanized steel wire braided. Length = 6m.

IP electrical signal interconnection kit cable, composed by high temperature cable. Protected inside a flexible galvanized steel wire braided. Length = 4m.

IP electrical signal interconnection kit cable between camera and JBX/CABTEC, composed by Ethernet high temperature cable and temperature sensor (PT100/4-20mA) cable. Supplied with MIL-STD connector one side. Protected inside a flexible galvanized steel wire braided. Length = 5m.

IP electrical signal interconnection kit cable between camera and JBX/CABTEC, composed by Ethernet high temperature cable and temperature sensor (PT100/4-20mA) cable. Supplied with MIL-STD connector one side. Protected inside a flexible galvanized steel wire braided. Length = 10m.

Electrical IP signal interconnection kit cable, composed by high temperature cable + 2 cables for double temperature sensor. Complete with MIL-STD connector one-side. Protected inside a flexible galvanized steel wire braided. Length = 4m.

Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 2.0 to Cabtec, composed by: 2x1/2"FD-F90 + 1x3/8"FD-F90, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 10m.

Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 1.0+Outec 1.0 to Cabtec, composed by: 3x1/2"FD-F90 + 1x3/8"FD-F90 + 1x1/4"FD-FD, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 4m.

Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 1.0+Outec 1.0 to Cabtec, composed by: 3x1/2"FD-F90 + 1x3/8"FD-F90 + 1x1/4"FD-FD, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 10m.

FOR DIFFERENT LENGTHS FROM THE VALUES DETAILED. REFER TO THE PREVIOUS TABLE.

ACCESSORIES

TCOXHT0001

TDAU7928A



KIT10X11D0



KIT10X13B0

KIT10X21B0

KIT10X31L0

KIT10X41F0

KIT10X53D0

KIT10X71E0

KIT10X71L0

KIT10X91D0

KIT10XBAL0





KIT10XCAL0

ACCESSORIES

KIT10XDAA0

KIT10XDAF0



Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 1.0/2.0 +Outec 2.0 to Cabtec, composed by: 1x1/2"FD-F90 + 2x3/8"FD-F90 + 2x1/4"FD-90, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 1m.

Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 1.0/2.0 +Outec 2.0 to Cabtec, composed by: 1x1/2"FD-F90 + 2x3/8"FD-F90 + 2x1/4"FD-90, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 6m.

Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 2.0+Intec 1.0 to Cabtec, 2x1/2"FD-F90 + 1x3/8"FD-F90 + 2x1/4"FD-FD, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. L= 15m.

KIT10XEBE0

KIT10XEAL0



Kit flexible hoses for hydraulic/pneumatic connection between Sondatec 2.0+Intec to Cabtec, composed by: 2x1/2"FD-F90 + 1x3/8"FD-F90 + 2x1/4"FD-FD, BSPP standard. Protected inside a wire braided reinforced and cover in black, oil and environment resistant synthetic rubber with AISI316L Stainless Steel terminations. Length = 5m.

Kit flexible hoses for hydraulic/pneumatic connection between Airtec to JBX, composed by: 1x1/4"F90-FD, BSPP standard. Protected inside a galvanized steel wire braided with nichel plated brass terminations. Length = 10m.

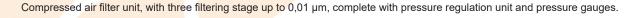
KIT10XHAL0



Double stage compressed air filter unit for temperature up to 65°C endowed with pressure regulator and manometer.

GFA13X100





GFA13X004



Compressed air filter unit, with three filtering stage up to 0,01 µm, complete with adjustable pressure for air instruments, range from 0.5 to 8 bar. Attack 1/4". Aluminium body, pressure regulation unit and pressure gauges.

C0.1XGFA13X100

0.01 µm filter element for air filter assembly GFA13X100.

T4344-01



T4338-04

Filter cardrige 5 µm 4338-04.

FOR DIFFERENT KIT LENGTHS FROM THE VALUES DETAILED, REFER TO THE PREVIOUS TABLE.

