



PRODUCT CATALOGUE

LAST UPDATE: SEPTEMBER 2012

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HOW DOES IT WORK ?



1 – THE DATA LOGGERS

They are spread in the area which has to be monitored. They send to the RF-to-USB key by radiofrequency the measures they take. They can be wireless configured and updated.

2 - THE RF-TO-USB KEY

It is the bridge between the PC and the loggers.

3 - RF-MONITOR

This software is installed on the PC and allows the monitoring of the loggers.

MONITORING



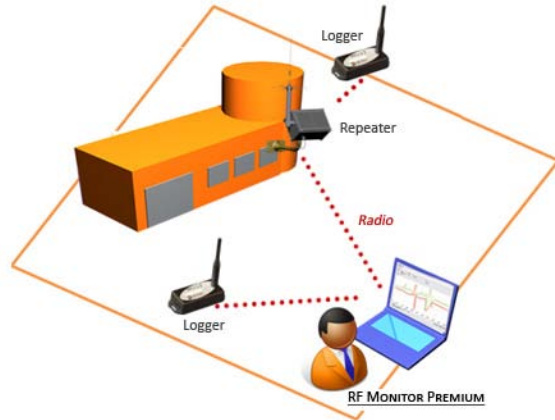
The logger sends in real time its measures to the PC. If a measure is not received by the PC, it stores it inside its internal memory and sends it to the PC on the next communication channel.

RECORDING



The logger records in its embedded memory the measures it takes. The user can download on the PC all the stored measures when he wants.

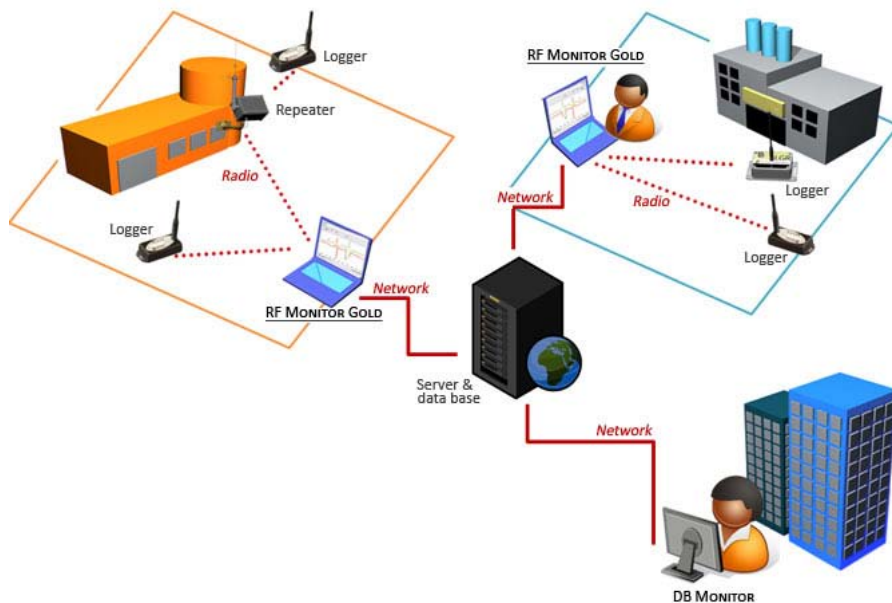
CREATE YOUR OWN SENSOR NETWORK...



USING RF MONITOR PREMIUM

- The loggers communicate with a PC; the measurements are displayed only on this PC.

> For single-site installations.

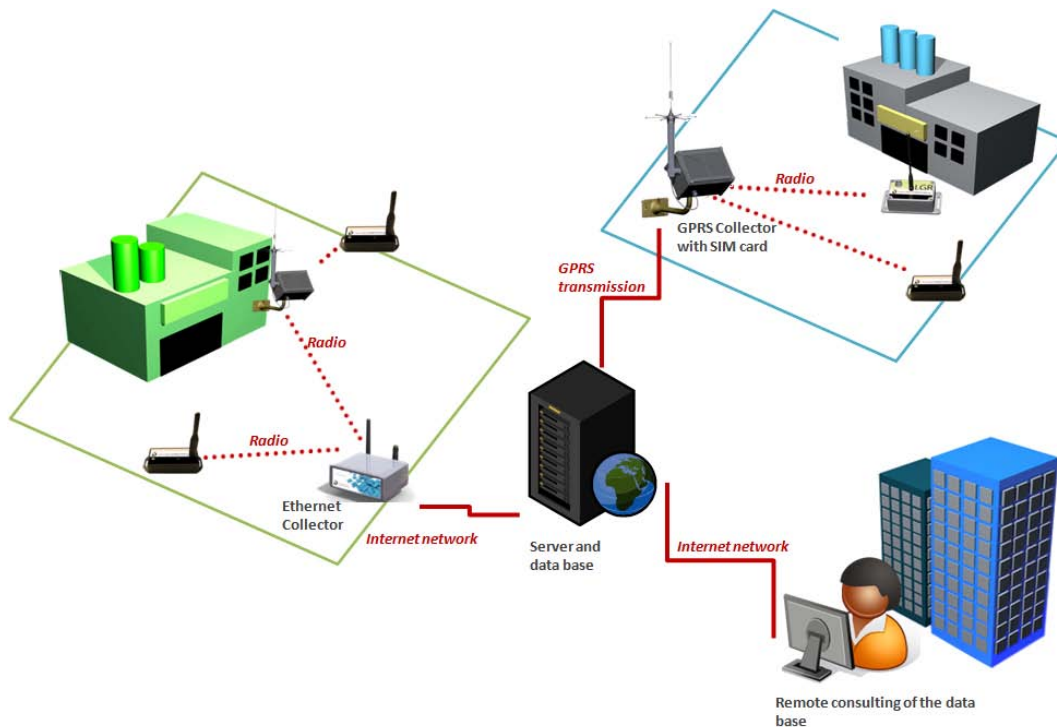


USING RF MONITOR GOLD

- Several Loggers networks are created.
- Each system communicates to a PC that transmits the measurement to a central database.
- From anywhere in the world, it is possible to connect to the database to check the measurements.
- This consultation is possible with free software DB Monitor.

>For multi-site installations.

CREATE YOUR OWN SENSOR NETWORK...



USING AN ETHERNET OR GPRS COLLECTOR

- The Logger equipped with a sensor takes the measure and transmits it by radio to the Collector,
- The collector transmits the measurements through Ethernet or GPRS to a central database,
- A real-time alert can be sent anywhere to the supervisor.

>The supervisor can access at any time to the measures, via Internet

LOG

LOGGERS

 Internal Antenna

 IP54 Casing

 1/2 AA (LT) Battery



References	Temp. Sensor
PFPN-LOG11-001	-40°C ... +70°C ± 0.6°

 1/4 Wavelength

 IP54 Casing

 1/2 AA (LT) Battery



References	Temp. Sensor
PFPN-LOG21-001	-40°C ... +70°C ± 0.6°
PFPN-LOG26-001	-40°C ... +70°C ± 0.3°

 1/2 Wavelength

 IP65 Casing

 AA (LT) Battery



References	Temp. Sensor
PFPN-LOG31-001	-40°C ... +85°C ± 0.6°
PFPN-LOG36-001	-40°C ... +85°C ± 0.3°

 1/4 Wavelength

 IP54 Casing

 1/2 AA (LT) Battery



References	Temp. Sensor
PFPN-LOG56-001	-40°C ... +70°C ± 0.3° for both sensor
PFPN-LOG66-001	-40°C ... +70°C ± 0.3° for both sensor

Need a COFRAC
certification?
Consult us

- Internal Antenna
- IP67 Casing
- ½ AA (LT) Battery



References	Temp. Sensor
PFKI-LOM16-002 (Pack of five)	-40°C ... +60°C ± 0.3°
PFKI-LOM18-002 (Pack of five)	-10°C ... +60°C ± 0.1°
PFKI-LOP16-002 (Pack of five)	-40°C ... +60°C ± 0.3°, for transportation

- ¼ Wavelength
- IP54 Casing
- ½ AA (LT) Battery



References	Temp. Sensor	Humidity Sensor*
PFPN-LOG20-001	-40°C ... +70°C ± 0.5°	0 ... 100% ± 4,5%
PFPN-LOG22-001	-40°C ... +70°C ± 0.4°	0 ... 100% ± 3%
PFPN-LOG25-001	-40°C ... +70°C ± 0.3°	0 ... 100% ± 2%

Dew Point calculation and display on all our temperature and humidity loggers.

* Non-condensing area

PRB

PROBES



IP67
Casing



Internal
antenna



½ AA (LT)



References

PFPN-PRB11-001

Sensors

2 x Temperature sensors
For hard products

PFPN- PRB21-001

2 x Temperature sensors
For soft products

*Contact us for delivery
time*

LGR

LOGGERS

1/2
Wavelength

IP65
Aluminium

AA (LT)
Battery



References

Interface

PFPN-LGR30-001

For PT100

PFPN-LGR31-001

For CTN

PFPN-LGR32-001

For Newsteo Temp & Humidity probe

PFPN-LGR33-001

For PT1000

PFPN-LGR36-001

For Newsteo digital Temperature probe

PFPN-LGR37-001

For Thermocouple

PFPN-LGR46-001

For Newsteo Double external probe of Temperature.

1/2
Wavelength

IP65
Aluminium

AA (LT)
Battery



References

Temp. Sensor

PFPN-LGRB6-001

-40°C ... +85°C ± 0.3°C
ATEX zone 2 gas certified

1/2
Wavelength

IP65
Aluminium

AA (LT)
Battery



References

Temp. Sensor

Humidity Sensor

PFPN-LGR54-001

-40°C ... +85°C ± 0.2°C

0 ... 100 % ± 1.8%,
dew formation resistant

LGR

PROBES

	References	For	Sensor	Interface	Characteristics
	PFPN-SNT51-001	LGR31	NTC	-30 to 60°C	NTC probe ± 5%
	PFPN-SNT51-002	LGR31	NTC	-40 to 80°C	NTC probe ± 0.3 °C. End protected by a small cube
	PFPN-STE52-001	LGR30	PT100	-40 to 60°C Class B	End protected by a heat-shrinkable sleeve
	PFPN-STE52-002	LGR30	PT100	-50 to 250°C Class B	PT100 for food contact, angle probe to insert
	PFPN-STE52-003	LGR30	PT100	-50 to 250°C Class B	Straight PT100 end of 150 mm
	PFPN-STE52-004	LGR30	PT100	-40 to +80°C° Class B	PT100 with stainless steel
	PFPN-STE53-001	LGR33	PT1000	-40 to 60°C	End protected by a heat-shrinkable sleeve
	PFPN-STE53-002	LGR33	PT1000	-40 to 500°C	Probe of stainless steel of 20mm
	PFPN-STE53-003	LGR33	PT1000	-50 to 180°C	Probe of stainless steel of 100m
	PFPN-STE53-005	LGR33	PT1000	-40 to 60 °C	Probe with ribbon cable for use through a refrigerator door
	PFPN-STE53-006	LGR33	PT1000	-40 to +80°C° Class B	PT1000 with stainless steel
	PFPN-STE51-001	LGR36	Digital Temp.	-40 to 60°C± 0.3°C	End protected by a heat-shrinkable sleeve
	PFPN-STE51-002	LGR36	Digital Temp.	-40 to 80°C± 0.3°C	Integrated temperature sensor
	PFPN-STE51-003	LGR36	Digital Temp.	-40 to 80°C± 0.3°C	Integrated temperature sensor



References	For	Sensor	Interface	Characteristics
PFPN-STT51-001	LGR46	Digital Temp.	-40 to 80°C± 0.3°C	Dual temperature probe
PFPN-STT51-002	LGR46	Digital Temp.	-40 to 80°C± 0.3°C	Dual temperature probe
PFPN-STH55-001	LGR32	Digital Temp. & Hum.	-25 to +80°C ± 0.3°C 0..100% ± 2.0%	Integrated temp. & humidity sensor*
PFPN-STH50-003	LGR32	Digital Temp. & Hum.	-40 to +125°C± 0.2°C 0..100%± 1.8%	Integrated temp. & humidity sensor in stainless steel**
PFPN-STH54-001	LGR32	Digital Temp. & Hum.	-40 to +125°C± 0.2°C 0..100%± 1.8%	Integrated temp. & humidity sensor in stainless steel**
PFPN-STC01-002	LGR37	Thermocouple K	-100 to 1100°C	Thermocouple K with probe of 250 mm Supplied with a CON05
PFPN-STC01-003	LGR37	Thermocouple K	-75°C to +250°C	Thermocouple K, 5 meters cable Supplied with a CON05
PFPN-STC32-001	LGR37	Thermocouple T	-185°C to +200°C	Thermocouple T With probe of 200 mm, cable 3 meters Supplied on a moulded connector
PFPN-STF51-001	LGR37	Thermal Flux	Thermal Flux	Probe Thermal Flux 50x50m 0.60W/m ²

* non condensed area.

** dew formation resistant.

LGR

CABLE AND CONNECTOR



References	Type	Compliance	IP	Characteristics
PFPN-CON05-001	Connector	LGR37	IP65	To connect any thermocouple (K, E, J, N, T)
PFPN-SES55-001	Cable	Any LGR except thermocouple	IP65	5 meters cable – Provided with fast contactor

**If you want to use your own sensor, you have to order a cable and a connector to plug it on the LG.*

LGS LOGGERS

 1/2
Wavelength

 IP65
Aluminium

 AA (LT)
Battery



References	Interface	Range of measure
PFPN-LGS31-001	Potentiometer	0 to 100% Impedance: 1 KOhm ... 65 KOhm
PFPN-LGP33-001	Potentiometer 3 inputs	0 to 100% Impedance: 1 KOhm ... 65 KOhm
PFPN-LGS33-001	0-2.5V	0 ... 2.5V
PFPN-LGS34-001	4-20mA	0 ... 20mA Impedance: 62 Ohm
PFPN-LGS35-001	0-10V	0 ... 10 Volt
PFPN-LGS36-001	Relay	10 Hz
PFPN-LGS76-001*	Relay	10 Hz
PFPN-LGS37-001	-50/+50mV	-50 ... +50mV
PFPN-LGS39-001	Impulse	10 Hz
PFPN-LGS79-001*	Impulse	10 Hz
PFPN-LGSA9-001	Impulse ATEX zone 2 gas certified	10 Hz

**Supplied on main power. External power supply needed (ref.: PFPN-ADAPT-003)*

LGS

CABLES AND CONNECTOR



References	Type	Compliance	IP	Characteristics
PFPN-SES55-001	Cable	LGS33 LGS34 LGS35 LGS36 – LGS76 LGS37 LGS39 – LGS79 LGSA9	IP65	5 meters cable to connect a sensor, provided with fast contactors.
PFPN-SES58-001	Cable	LGS31 – LGS33	IP65	5 meters cable to connect a sensor, provided with fast contactors.
PFPN-CON05-001	Connector	LGS33 LGS34 LGS35 LGS36 – LGS76 LGS37 LGS39 – LGS79 LGSA9	IP65	To directly connect the customer sensor to the LGS.

If you want to use your own sensor, you have to order a cable or a connector to plug it on the LGS.

LGS31

PROBES

	References	Type	Compliance	IP	Characteristics
	PFPN-FISSU-001	Crackmeter	LGS31-001 +STY58-002	IP40	Measurement bracket: 0... 10 mm
	PFPN-STY58-002	Associated Cable	LGS31-001	IP40	5 meters with temperature gauge integrated and connector for FISSU-001
	PFPN-FISSU-002	Crackmeter	LGS31-001 +STY58-003	IP67	Measurement bracket: 0 ... 25 mm
	PFPN-STY58-003	Associated Cable	LGS31-001	IP67	5 meters with temperature gauge integrated and connector for FISSU-002
	PFPN-FISSU-003	Crackmeter	LGS31-001 + STY58-004	IP65	Gefran PCM050 crackmeter, female connector
	PFPN-STY58-004	Associated Cable	LGS31-001	IP67	5 meters with temperature gauge integrated and connector for FISSU-003
	PFPN-SES58-001	Cable	LGS31-001	IP65	5 meters cable, to connect any sensor, provided with fast contactors
	PFPN-STY58-001	Cable	LGS31-001	IP65	5 meters cable, to connect any sensor, provided with fast contactors and temperature sensor

LGJ

LOGGERS

-  1/2 Wavelength
-  IP65
-  Aluminium
-  AA (LT) Battery



References	Interface	Range of measure
PFPN- LGJ3D-001	Strain gauges - Full Bridge (wheatstone bridge)	+/- 50 mV for a 2.7V excitation

CABLE



References	Type	Compliance	IP	Characteristics
PFPN-SES58-001	Cable	LGS31 – LGP33	IP65	5 meters cable to connect a sensor, provided with fast contactors.

If you want to use your own sensor, you have to order a cable or a connector to plug it on the LGJ.

LGW

LOGGERS

 1/2 Wavelength - IP65 Aluminium - AA (LT) Battery		References	Range of measure	Power supply for the sensor
		PFPN-LGW31-001	0 to 3 Volt	3 Volt / 150 mA
		PFPN-LGW32-001	0 to 1 Volt	10 Volt
		PFPN-LGW33-001	0 to 2 Volt	12 Volt / 100 mA
		PFPN-LGW34-001	0 to 10 Volt	12 Volt
		PFPN-LGW35-001	0 to 10 Volt	15 Volt
		PFPN-LGW75-001*	0 to 10 Volt	15 Volt
		PFPN-LGW38-001	0 to 5 Volt	10 Volt / 100 mA

*Supplied on main power. External power supply needed (ref.: PFPN-ADAPT-003)

LGW

PROBES AND CABLES

 	References	Type	Compliance	IP	Characteristics
	PFPN-PYRAN-001	Probe	LGW31	IP67	Probe of 5 meters with pyranometer integrated
	PFPN-AIRSP-001	Probe	LGW38	IP20	Probe of 5 meters for speed of air measure
	PFPN-SES55-001	Cable	All LGW	IP65	5m cable, to connect any sensor, provided with fast contactors

TRK TRACKERS

 Internal Antenna  IP54		References	Sensors	Operating Temp	Battery
		PFPN-TRK31-001	Shock: -6g .. +6g Temp.: -10°C ... +60°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-10°C ... +60°C	3 AA Alkaline
		PFPN-TRK33-001	Shock: -6g .. +6g Temp.: -40°C ... +85°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-40°C ... +85°C	A LT

 1/4 Wavelength  IP54  3 AA Alkaline		References	Sensors	Operating Temp
		PFPN-TRK41-001	Shock: -6g .. +6g Temp.: -10°C ... +60°C ± 0.4°C Hum.: 0 ... 100% ±3.0% Light : 0 ... 220 Lux ± 30 Lux	-10°C ... +60°C
		PFPN-TRK41-002	Same as PFPN-TRK41-001, without antenna	

 Internal Antenna  IP54 Casing  A LT Battery		References	Sensors	Operating Temp
		PFPN-TRE35-001	Shock: -16g ... +16g Temp.: -40°C ... +85°C±0.3°C	-40°C ... +60°C

BLD

BUILDERS



IP54
Casing



High range
Antenna with
a 5m cable



C LT
Battery



References

PFPN-BLR36-001

PFPN-BLR37-001

Sensors

Temp.: -20°C ... +80°C ± 0.3°C

Temp.: -20°C ... +80°C ± 0.3°C
Deformation: -1850 ppm to +1850 ppm
for a bridge excitation of 2.7 Volt

RPT

REPEATERS



References	Specifications	Case	Antenna	Power supply
PFPN-RPT41-001	Outdoor radio relay	IP67	Full Wavelength	Solar panels



References	Specifications	Case	Antenna	Power supply
PFPN-RPT20-001	Indoor radio relay	IP50	1/2 Wavelength	Conventional AC Power (supplied)



References	Specifications	Case	Antenna	Power supply
PFPN-RPT30-001	Outdoor radio relay	IP65	1/2 Wavelength	Conventional AC Power (supplied)
PFPN-RPT30-002	Outdoor radio relay	IP65	Without antenna (SMA connector)	Conventional AC Power (supplied)

COL

COLLECTORS



References	Specifications	Case	Antenna	Power supply
PFPN-COL21-001	GPRS Collector	IP50	1/2 Wavelength	Conventional AC Power
PFPN-COL22-001	Ethernet Collector	IP50	1/2 Wavelength	Conventional AC Power

Contact us for delivery time of GPRS Collectors



References	Specifications	Case	Antenna	Power supply
PFPN-COL41-001	Outdoor GPRS Collector	IP67	Full Wavelength	Solar panels

KEY FOR PLC



References	Link	Communication protocol	Antenna	IP
PFPN-KES63-001	Rf-to-RS232	MODBUS	Without Antenna	IP30
PFPN-KES65-002	Rf-to-RS485	MODBUS	Without Antenna	IP30

References	Link	Communication protocol	Antenna	IP
PFPN-KES83-001	Rf-to-RS232	MODBUS	Without Antenna	IP65
PFPN-KES85-001	Rf-to-RS485	MODBUS	Without Antenna	IP65

SOFTWARE



References	Characteristics
PFPN-RFM05-001	RF Monitor for LOM & LOP only , not compliant with other references Delivered with KEY15-001 Premium: The measurements are stored on the PC, on a local database
PFPN-RFM10-001	RF Monitor with Premium Licence Delivered with KEY11-001 Premium: The measurements are stored on the PC, on a local database
PFPN-RFM20-001	RF Monitor with Gold Licence Delivered with KEY12-001 Gold: The measurements are stored on a shared and remote database
PFPN-RFM30-001	RF Monitor Gold with CFR21 Delivered with KEY14-001
PFPN-RFM40-001	RF Monitor Premium with CFR21 Delivered with KEY13-001

ANTENNAS

FOR NEWSTEO PRODUCTS



References	Type	Compliance
PFPN-ANT40-001	Whip ¼ wavelength	KEY – LOG – TRK41
PFPN-ANT41-001	¼ wavelength With ground plane Cable of 2 meters	KEY – LOG – LGR – LGS – LGW – RPT20
PFPN-ANT20-001	Whip ½ Wavelength, rigid	LGR – LGS – LGW – RPT20
PFPN-ANT20-002	Whip ½ Wavelength, flexible	LOG – KEY
PFPN-ANT11-001	Full wavelength grounded Cable of 5 meters	KEY – LOG – LGR – LGS - RPT
PFPN-ANT11-002	Full wavelength grounded Cable of 10 meters	KEY – LOG – LGR – LGS - RPT
PFPN-ANT97-001	Yagi Directional range.	RPT (consult us)
PFPN-ANT44-001	Whip ¼ Wavelength – 0 to 90° Rotation	COL22

EVALUATION KITS

FOR NEWSTEO PRODUCTS

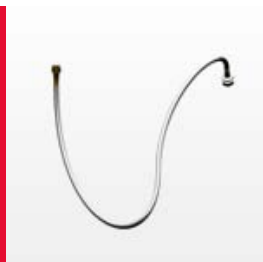


	Devices	Software	Key	Magnet	USB Cable
PFKI-LOG26-001	One LOG26-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LOG22-001	One LOG22-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGR33-001	One LGR33-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGR37-001	One Probe STE53-003 One LGR37-001 One Probe STC01-002	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-TRK31-001	One TRK31-001	One RFM10-001	One Key11-001		One CBUSB-001
PFKI-BLR37-001	One BLR37-001	One RFM10-001	One Key11-001		One CBUSB-001
PFKI-LGS34-001	One LGS34-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGS35-001	One cable SES55-001 One LGS35-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGS39-001	One cable SES55-001 One LGS39-001	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-LGSA9-001	One cable SES55-001 One LGSA9-001		One PFPN-KES65-001 One antenna ANT11		
PFKI-KES63-001	One PFPN-KES63-001 One antenna ANT40	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-KES65-001	One PFPN-KES65-001 One antenna ANT40	One RFM10-001	One Key11-001	One AIMANT-001	One CBUSB-001
PFKI-PHA26-001	One LOG26-001	One RFM10-001 with special pharmacy interface	One Key11-001	One AIMANT-001	One CBUSB-001



	Devices	Software	Key	Magnet	USB Cable
PFKI-LOM16-001	2 x PFPN-LOM16-001	One RFM05-001	One PFPN-KEY15-001	1 x AIMANT-001	One CBUSB-001
PFKI-LOM16-002	5 x PFPN-LOM16-001			2 x AIMANT-001	
PFKI-LOM18-001	2 x PFPN-LOM18-001	One RFM05-001	One PFPN-KEY15-001	1 x AIMANT-001	One CBUSB-001
PFKI-LOM18-002	5 x PFPN-LOM18-001			2 x AIMANT-001	
PFKI-LOP16-001	2 x PFPN-LOP16-001	One RFM05-001	One PFPN-KEY15-001	1 x AIMANT-001	One CBUSB-001
PFKI-LOP16-002	5 x PFPN-LOP16-001			2 x AIMANT-001	

ACCESSORIES



References	Description	Characteristics
PFPN-CBL05-001	Cable	5m extension coax cable SMA. Male-Female.
PFPN-CBL10-001	Cable	10m extension coax cable SMA. Male-Female.
PFPN-CBL20-001	Cable	20m extension coax cable SMA. Male-Female.
PFPN-CBL05-002	Cable	5m extension coax cable SMA. Male to N Male.
PFPN-CBL05-003	Cable	5m extension coax cable SMA. Male (waterproof) to N Male.
PFPN-CBL10-002	Cable	10m extension coax cable SMA. Male to N Male.



References	Description	Characteristics
PFPN-CDRFM-001	CD-ROM	Additional RF Monitor CD-ROM installer
PFPN-CDRFM-003	CD-ROM	Additional RF Monitor Pharma software



References	Description	Characteristics
PFPN-LOTPI-001	Battery	Pack of 10 lithium thionil ½ AA batteries (for all the products of the LOG range except LOG31 and LOG36)
PFPN-LOTPI-002	Battery	Pack of 10 lithium thionil AA batteries (for all the products of the LGR, LGW, LGS ranges, (LGJ excepted) and LOG31 and LOG36)
PFPN-LOTPI-006	Battery	Pack of 10 lithium CR2450 batteries
PFPN-LOTPI-007	Battery	Pack of 30 Alkaline LR6 batteries (for TRK31)



References	Description	Characteristics
PFPN-LOTPI-008	Battery	Pack of 10 lithium thionyl ½ AA batteries with mini-connector and wires (for LOM16)
PFPN-LOTPI-009	Battery	Pack of 10 lithium thionyl AA batteries with mini-connector and wires (for new generation of LGR, LGW, LGS ranges, (LGJ excepted) and LOG31 and LOG36)
PFPN-LOTPI-010	Battery Pack	Pack of 10 A double-batteries lithium thionyl with mini-connector and Wires (10x2 batteries) High autonomy pack for new generation of LGR, LGW, LGS ranges, (LGSJ excepted) and LOG31 and LOG36
PFPN-LOTPI-011	Battery Pack	Pack of 5 A double-batteries lithium thionyl with mini-connector and Wires (5x2 batteries) High autonomy pack for new generation of LGR, LGW, LGS ranges, (LGSJ excepted) and LOG31 and LOG36



References	Description	Characteristics
PFPN-CBUSB-001	USB cable	USB-A Male-Female extender cable 0.8m



References	Description	Characteristics
PFPN-RLA21-001	USB output relay	Active security - 1 relay with 3 poles
PFPN-RLB21-001	USB output relay	Toggle (bistable) - 1 relay with 3 poles



References	Description	Characteristics
PFPN- RLW21-001	Radio output relay	2x3 relay contacts
		Contact us for delivery time



References	Description	Characteristics
PFPN-AIMANT-001	Magnet	Newsteo magnet to wake-up loggers

References	Description	Characteristics
PFPN-ADAPT-003	Conventional external power supply	Power supply with 3 points M8 female plug, to supply products such as LGS76
PFPN-ADAPT-004	Conventional external power supply	Power supply for RPT30
PFPN-ADAPT-005	Conventional external power supply	Power supply for RPT2x and COL2x



References	Description	Characteristics
PFPN-PLATE-001	Fixation	Fixation base kit for LOG31/36, supplied with its 2 screws



References	Description	Characteristics
PFPN-SES55-001	Cable	5 meters cable to connect a sensor, provided with fast contactors. For LGR, LGS or LGW (compliant with all references except LGS31, LGP33, LGJ).
PFPN-SES58-001	Cable	5 meters cable to connect a sensor, provided with fast contactors. For LGS31, LGP33, LGJ
PFPN-CON05-001	Connector	Connector used to connect the sensor of your choice to the LGR, LGS or LGW (compliant with all references except LGS31, LGP33, LGJ). Mainly used for the thermocouple (LGR37)
PFPN-CON13-001	Connector	3 points M8 connector, to supply products such as LGS76 Allows to develop its own power supply instead of using PFPN-ADAPT-003

References	Description	Characteristics
PFKI-THUND-001	Protection	Thunder protection for ANT11