Tests

Provaset ISO is an instrument with microprocessor electronics which guarantees high reliability and safety in leak testing. Its compact size and ease of use make it suitable as a bench instrument, manned or unmanned; moreover, thanks to a PLC interface and serial ports, it can be easily integrated into automated testing facilities. The ability to connect compact printers allows the user to attach “till receipts” and reports to the tested piece, whenever testing certification is needed. Provaset ISO is available both for vacuum testing, with internal generator, or pressure testing from 0.5 bar (typical of gas and medical applications) to 20 bar.

ISO

Provaset ISO is entirely designed and manufactured in Italy. Our products guarantee an excellent quality and the best value for money.
The testing cycle consists of three stages:

**FILLING (time T1):**
- the product being tested is filled to the programmed rated test pressure.

**SETTLING (time T2):**
- the equipment waits for the pressure to settle in the product being tested.

**LEAK MEASUREMENT (time T3):**
- the pressure decay in the product being tested is measured.

**OPERATING PRINCIPLE**

**Power Supply:** Universal: 85÷264 Vac, 47÷63 Hz; 35 VA

**Compressed Air Line:**
- Dry, non-condensing, 5-micron filtered, and oil-free air
- compliant with ISO8573-1, 6x4 mm hose fitting

**Sensor Calibration:**
- Keyboard software procedure
- Supply pressure compatible with the instrument’s full scale pressure

**ADC:**
- 24 bits

**Full Scale:**
- -1 bar (w/o vacuum generator), - 800 mbar (with vacuum pump), 500 mbar, 2 bar, 6 bar, 8 bar, 20 bar

**Resolution:**
- 0.01 mbar (1 Pa) – model with 500 mbar full scale
- 0.1 mbar (10 Pa) – all other models

**Class:**
- 0.5% FS

**Pressure Regulator:**
- Manual, high precision

**Keyboard:**
- 5 keys for setting parameters with software protection against unintended changes
- manual START button, key switch for locking test parameters (option)

**Display:**
- Backlit LCD 16x2 display

**Indicators:**
- 4 LEDs: 2 yellow (test stages), green (passed), red (failed)

**Test Counter:**
- PASSED and FAILED totals, resettable to zero

**Sound Alert:**
- Built-in beeper with programmable duration

**Clock:**
- Date and time, with supercap, 7 days back up max

**Programmable Parameters:**
- 16 test tables, test phases, filling method, multiple obstruction test, selectable pressure scale, external commands, programming key (option)

**PLC Connections:**
- 6 photocoupled inputs: START / RESET / TABLE SELECT
- 2 photocoupled outputs: TEST RUNNING, ERROR
- 2 relay outputs: PASSED, FAILED

**Data Interfaces:**
- RS422/RS485 serial port with Modbus protocol
- RS232 serial port with Modbus protocol or printer

**Staubli® Connector:**
- Not available

**Housing:**
- Stainless steel, unpainted

**Calibration service**
- Each equipment is accompanied by a calibration certificate released by Tecna srl.
- According to the requirements of ISO9001 standard, calibration must be verified at specified intervals against national or international test samples.
- Tecna srl, through its own specialized personnel and certified instruments, offers a complete scheduled calibration service.

**ACCESSORIES:**
- Remote control with START function, PASS/REJECT outcome led, 10’ (3 m) cable, also available with table selector
- Air filters and oil separators

**CUSTOMIZED SOFTWARE FOR HMI TERMINAL/PC:**
- Viewing and management of several testing stations.
- Parameter programming and SPC analysis of test data.

**DIMENSIONS:**

The products presented in this catalogue are subject to normal technical and design modifications, without prior notice and without responsibilities for the manufacturer.