

# Provaset ISO

EQUIPMENT FOR LEAK TESTS  
BY ABSOLUTE PRESSURE DROP



## COMPACT SIZE

## FAST AND RELIABLE

## EASY TO USE

## WIDE RANGE

- Leak tests up to -1 bar, -800 mbar, 500 mbar, 2 bar, 6 bar, 8 bar, 20 bar
- Resolution up to 1 Pa (0.01 mbar)
- Vacuum tests with internal generator
- Safety pneumatic circuit
- Backlit LCD 16x2 display
- Digital interface for PLC
- RS485 and RS422 serial port
- RS232 printer interface
- 16 test tables
- Menu available in 5 languages



## 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 "test 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.

## SPECIFICATIONS

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 Supply pressure compatible with the instrument's full scale pressure
Sensor Calibration	Keyboard software procedure
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.

## "ABSOLUTE" PRESSURE DECAY

The testing cycle consists of three stages:

### FILLING (time T1):

the product being tested is filled to the programmed rated test pressure.

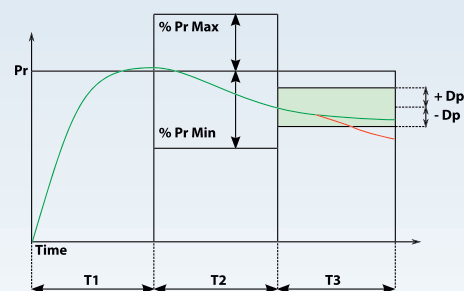
### SETTLING (time T2):

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



## DIMENSIONS:

