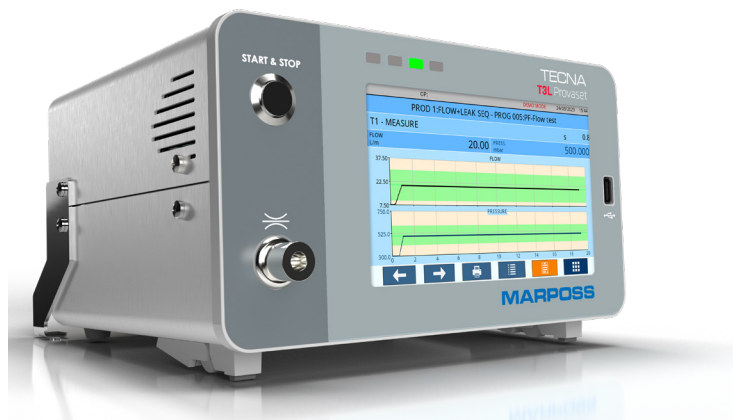




# Provaset **T3LPF**

## INSTRUMENT FOR MASS FLOW TEST AND LEAK TEST BY ABSOLUTE PRESSURE DECAY



- Flow measurement with mass sensor:
  - ranges up to 300 l/min
  - resolution up to 0.01 cm<sup>3</sup>/min
- Leak test with measure of pressure decay:
  - full scale range up to 6 bar
  - resolution up to 0.1 Pa
- 300 test programs
- 300 test sequences
- Digital I/O interfaces
- USB, RS232/RS485 serial lines for PC, Ethernet, Profinet



### DESCRIPTION

Provaset T3LPF is an electro-pneumatic instrument, designed for air flow tests at a programmed pressure, controlled by an electronic pressure regulator. In addition to flow testing, the instrument is able to perform also leak tests with absolute pressure decay measurement.

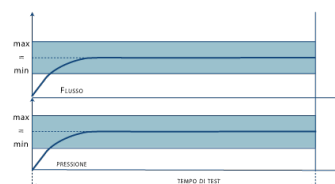
The touch interface, with colour display and real-time view of testing, make programming and use simple and immediate.

Provaset T3LPF is suitable for use in all industrial segments, on testing benches, production lines or fully automatic systems.

The control of external automations, the interface with barcode, Qrcode readers and printers and the possibility to record the tests on USB memories or via Ethernet make it a complete and suitable instrument for the most modern production methods.

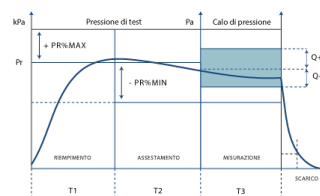
### DIRECT FLOW MEASUREMENT

The instrument directly controls and measures the pressure and flow rate of the product being tested (filters, valves, cooktops, exhaust manifolds ...).  
The test can be performed at constant flow.



### LEAK TEST BY ABSOLUTE PRESSURE DECAY

The test cycle is based on the measuring of the pressure decay inside the component being tested, which must be below the set limit to pass the test.  
With the electronic pressure regulator is possible to set up customized filling ramps.



### CALIBRATION SERVICE

Each equipment is accompanied by a calibration report released by Tecna.

According to the requirements of ISO9001 standard, calibration must be verified at specified intervals against national or international test masters. Tecna and Marposs, through specialized personnel and certified instruments, offers a complete scheduled calibration service.

TEST

# Provaset T3LPF

Rev 04/24

## SPECIFICATIONS

Power supply	External 24 Vdc; alternatively 85÷264 Vac, 35W
Compressed air line	Dry, non-condensing, 5-micron filtered and oil-free air, compliant with ISO8573-1
Calibration	Calibration Reports or Certificates Software-guided procedure with sample instruments.
Pressure Regulator	Electronic, with dedicated pressure transducer to visualize the regulated pressure on the display; alternatively manual regulator
Display and Keyboard	7" colour TFT LCD display with resistive touchscreen
Indicators	4 LED lights (testing phases, pass/reject outcome)
Test counter	Passed and Rejected totals, resettable to zero
Audible alarm	Built-in beeper with programmable duration
Programmable parameters	300 testing tables with sequential mode, general parameters, volume calculation to indicate the leak rate in cm <sup>3</sup> /min or cm <sup>3</sup> /h
Digital IO	8 (+8 optional) programmable inputs and 8 (+8 optional) programmable outputs
USB	2 host for firmware update, barcode reader (optional), data collection, backup and restore 1 slave for computer interfac
LAN and Fieldbus	1 RJ45 Ethernet Profinet, ProfiBUS (optional)
Serial Lines	1 port configurable RS232/RS485
Interfaces and Protocols	Profinet, ProfiBUS, Modbus RTU - TCP/IP, CSV ASCII, barcode, Qrcode, printer, jServer
Staubli® Connector	Standard, for Leak Masters
Housing	Unpainted anodized aluminium

## OPTIONS

- 2 programmable pneumatic outputs for external commands (plug/marker)
- I/O expansion: adds digital PLC inputs/outputs (8+8) and a RS232/RS485 serial line
- Additional Profinet, USB, ProfiBUS interfaces for remote control and data collection
- Software to manage a label printer and a barcode or Qrcode reader

## ACCESSORIES

- Air filters
- Certificated Leak Master to be inserted in the Staubli® connector
- Barcode, Qrcode reader and printer
- Remote control keypad
- 3-colours indicator light with loud sound alert
- External valve for volume check
- Dust caps included

## SOFTWARE MANAGER

- LAN jServer interface to collect and manage datas
- Parameter programming

## DIMENSIONS

