



# Delta **TM3P**

## TESTING MODULES FOR LEAK TESTS BY ABSOLUTE PRESSURE DECAY



- Leak tests up to 20 bar and in vacuum
- Resolution up to 0.1 Pa (0.001 mbar)
- Pneumatic and electronic circuits completely intergrated
- Reduction of the test time
- Easy to install and use
- Digital interface for PLC
- RS485/USB communication interfaces
- 300 test programs



### DESCRIPTION

DELTA TM3P pneumatic modules are the best solution to integrate a reliable and compact testing station in automated systems.

The absence of display or push-buttons has permitted the reduction of the

dimensions, making it possible to fit the module in every automation, as close as possible to the product to be tested, reducing unnecessary volumes and increasing the speed and sensitivity of the tests.

DELTA TM3P pneumatic modules can be connected to and controlled by every PLC and interfaced to operator terminals.

### ABSOLUTE PRESSURE DECAY

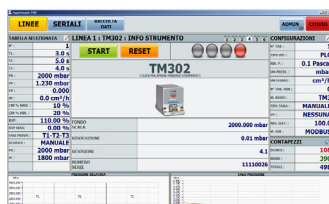
The testing cycle is based on the pressure decay measured inside of the component being tested, which must be below the set limit to pass the test. Blockage test is used to check for

obstructions in the component being tested by measuring the counter pressure generated by the passage of air through the component being tested. For tests on sealed products

or strength tests (burst tests) you can set up customized testing cycles. Furthermore, if the electronic pressure adjustment is available, you can set up customized filling ramps.

TEST

### DELTA TM3 can be interfaced with:



- SOFTWARE MANAGER



- Traditional PLC systems



- HMI with dedicated software

## SPECIFICATIONS

DC Power Supply	24Vcc ± 10 %, 1.5 A
Compressed Air Line	Unlubricated, filtered (5 µm) and dry air compliant with Standard ISO 8573-1 PV Pilot pressure for internal valves: 300 ÷ 1000 kPa
Sensor Calibration	Remote control software procedure
Pressure Regulator	External, optional
Indicators	4 LEDs: two yellow (test phases), green (passed), red (failed)
Counter	Test Counters: PASSED and FAILED totals, resettable to zero Life Counters
Programmable parameters	300 testing tables, general testing parameters
Digital IO	2 (+ 3 optional) not programmable Input , 24 Vcc, 0.7 A max 4 not programmable Output , 24 Vcc, 0.7 A max
USB	1 port USB-Device for computer interface
Serial Lines	1 port RS485 , 3 pin, terminal block + 1 port RS485/RS232, binder (Optional)
Interfaces and Protocols	CSV (ASCII) Modbus RTU
Staubli® Connector	Available on external connection for leak masters (option)
Housing	Unpainted anodized aluminium

## CALIBRATION SERVICE

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

According to the requirements of ISO9001 standard, the calibration must be verified at specified intervals against national or international test masters.

Tecna and Marposs, through specialized personnel and certified instruments, offer a complete scheduled calibration service.

## ACCESSORIES

- Pressure and flow regulators
- External module for vacuum generation
- Air filters
- Fixing brackets
- Staubli® connector assembled on a T fitting to join a Leak Master
- Dust caps included

## SOFTWARE MANAGER

- Software to collect and manage the data of the tests
- Viewing, programming, management of single or multiple testing stations
- Backup and Restore archive test table
- Barcode/QRcode/Datamatrix

## HMI TERMINAL

HMI Weintek operator terminal with touchscreen display.

Preloaded software to manage multiple instruments.

Libraries for other PLCs and HMI viewers are available upon request.

Barcode/QRcode/Datamatrix and Printer management

## DIMENSIONS

