

Labtec PRO

Modular Test Bench System



PRO static
static testing device

upgradeable
at any time

PRO light
universal testing device

- + Breathing with artificial lung
- + Universal test head with forehead measuring point



upgradeable
at any time



PRO

fully-automatic universal testing device

- + Breathing with artificial lung
- + Universal test head with forehead measuring point
- + Analog pneumatic redundancy
- + SCBA safety valve test
- + Fully automatic sealing of the demand valve during negative and positive pressure leak test
- + Fully automatic warning signal test with microphone

Labtec PRO

Modular Test Bench System

Description

Modular, respiratory protection testbench for automatic field testing of full-face breathing masks, self-contained breathing apparatus (SCBA), diving equipment (SCUBA) and chemical protective suits (CPS).

The test / measuring volume is 480 ml.

Testing possibilities

Breathing Masks / Demand Valves / CPS

- Tightness tests in negative and positive pressure
- Tightness test dosing valve
- Opening pressure of the exhalation valve
- Response pressure at up to 10 l/min
- Static overpressure
- Inhalation and exhalation resistance while breathing (PRO light + PRO)

SCBA / SCUBA

- High pressure leakage test
- Pressure gauge comparison
- Safety valve opening/closing pressure (Only PRO)
- Warning Whistle Test
- Resistance based SCUBA Warning signal test (optional with option R)
- Static Medium pressure
- Medium-pressure leakage
- Dynamic Medium pressure dynamic while breathing (PRO light + PRO)

Equipment and function

Including network-compatible test software LabNet Profi for operating the test stand with a Windows® PC, connection via USB interface.

Fixed head, exchangeable from the outside and covered with a natural rubber skin, additionally electrically inflatable via a pump for problem-free sealing of all masks, regardless of manufacturer.

Integrated operating and display panel with digital OLED display and membrane keyboard for manual operation and display of measured values.

Built-in pressure/vacuum pump for generating an air flow of up to ± 10 l/min and positive and negative pressure testing for masks, demand valves and CPS.

HP screw connection 6S according to DIN 2353 / EN ISO 8434-1 as high pressure inlet.

Front 300 bar device connection socket for connecting the PA pressure reducer.

EURO coupling and nipple for adaptation of the medium pressure connections of regulators and regulators

Separate quick coupling with silencer for system ventilation and connection of the CPS filling line.

For Labtec PRO and PRO light additionally:

Artificial lung adjustable via the software for breath testing of masks, lung machines and pressure regulators.

Measuring point forehead on the universal test head for respiration testing with mask without adapter.

Only for Labtec PRO additionally:

Additional, analog measurement technology as redundancy for the most reliable measurement results.

Integrated microphone for testing the acoustic warning device.

Fully automatic system component for automatic sealing of demand valves during leak testing in negative and positive pressure.

Fully automatic system component for SCBA safety valve testing by medium pressure increase.

Labtec PRO static
Art.-Nr. 180170

Labtec PRO light
Art.-Nr. 180160

Labtec PRO
Art.-Nr. 180150

Labtec PRO

Modular Test Bench System

Technical data

Power supply: 230 V AC / 50 Hz
 Total power: max. 450 W
 Dimensions: W 67 x H 51 x D 54 cm
 Protection class: IP54
 Weight: 39 kg / 41kg / 45kg

Accessories included in delivery

Power and USB connection cable
 Audio cable (ONLY PRO)
 Silicone care spray
 Software LabNet Profi
 Operating instructions
 High-Pressure connection set

Modular options - Supplementary equipment to the basic unit

Option R (Regler) - only Labtec PRO

External high-pressure regulator 0 to 400 bar mounted on the front for variable adjustment of the high pressure.

Art.-No. 180 030

(with factory retrofitting Art.-No. 185 030)



Option COM (AiO-PC)

Freely positionable touchscreen PC, connected to test device via swivel arm mounting, incl. pre-installed LabNet Profi test software.

Art.-No. 180 080

(with factory retrofitting Art.-No. 185 080)



Retrofitting / upgrade options

Labtec PRO-light UP

Factory retrofit of an artificial vario lung and multifunction test head incl. measuring point forehead as well as control and firmware update to Labtec PRO light version

Art.-No. 185100



Labtec PRO-UP

Factory retrofit of a fully automatic pneumatic unit, medium pressure boost, analog redundancy, gooseneck microphone as well as control and firmware update to Labtec PRO version.

For PRO static only in combination with Labtec PRO-light UP

Art.-No. 185200



Optional accessories

Adapters and connection accessories

Test adapters and sealing caps with screw connections, ESA plug-in connections according to DIN 58600 or with manufacturer-dependent connections for normal and positive pressure devices, breathing adapters for mask simulation during breathing tests of demand valves, CPS adapter sets, hose extensions etc.



Barcode and transponder identification systems

Wired handheld scanners and radio scanners for barcodes (1D) and QR codes (2D)

Printer for printing barcode labels directly from the software

RFID readers for transponders with 125 kHz, 134.2 kHz and 13.56 MHz.



HMC Mountings

Retrofittable holder and attachment for special masks of helmet-mask combinations of the helmet manufacturers Gallet, Rosenbauer and Schubert (assembly by the Labtec service required).



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