

# 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

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### 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  $\pm 10$  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

<p><b>Option R (Regler)</b>                  External high-pressure regulator 0 to 400 bar mounted on the front for variable adjustment of the high pressure.  <b>Art.-No. 180 030</b>                  (with factory retrofitting Art.-No. 185 030)</p>	
<p><b>Option COM (AiO-PC)</b>                  Freely positionable touchscreen PC, connected to test device via swivel arm mounting, incl. pre-installed LabNet Profi test software.  <b>Art.-No. 180 080</b>                  (with factory retrofitting Art.-No. 185 080)</p>	

### Retrofitting / upgrade options

<p><b>Labtec PRO-light UP</b>                  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  <b>Art.-No. 185100</b></p>	
<p><b>Labtec PRO-UP</b>                  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.  <b>For PRO static only in combination with Labtec PRO-light UP</b>  <b>Art.-No. 185200</b></p>	

### Optional accessories

<p><b>Adapters and connection accessories</b>                  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.</p>	
<p><b>Barcode and transponder identification systems</b>                  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.</p>	
<p><b>HMC Mountings</b>                  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).</p>	

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