PRO 241
PRO 245

DIFFERENTIAL ABSOLUTE PRESSURE HANDHELD METER / DATA LOGGER

www.senseca.com

INTRODUCTION

PRO 241 and **PRO 245** are absolute pressure high class professional handheld meters/vacuummeters with a rich set of features, high grade robustness and operating comfort for safe and reliable use. PRO 245 also has **data logging capability.**

FEATURES

Display

The multilingual large dot matrix/clear text LCD has ergonomic wide-angle visibility from daylight to darkness, thanks to the backlight. It displays either large scale values, statistical data or the chart of a variable measurement history.
The HOLD feature allows freezing the measurements on display, while the REL feature allows showing the measurement against the measured value.
Many units of measurement available: hPa, kPa, bar, mbar, inHg, mmHg

Data Logging (only PRO 245)

Large storage capacity: up to 1 million data, file system based.
The logged data are store in CSV files that can be easily viewed connecting the instrument to a PC via USB: the instrument is seen by the PC as a mass storage device, the data can be read oud and evaluated without software necessarily needed.
Automatic log with configurable interval.
The instruments integrate a Real Time Clock: date and time of each logged sample are stored.

Application Software

n addition to CSV files, the free user-friendly basic ProXware PC application software allows for examination of a large amount of logged data.

Alarm

Configurable alarm thresholds and optionally hysteresis can be set. LCD indication and buzzer activation when thresholds are exceeded.

Ergonomics

The construction allows for both one-handed use as well as bench-top use with the foldable back stand. Side rubber protection offers a secure grip during the use in the field.

CONFIGURATION & MEASUREMENT

Pressure measurement

The meters have an internal digital absolute pressure sensor. The range includes vacuum at the one side (0.0 hPa absolute as well as 1700 hPa abs..
The meter is supplied with a universal barbed pressure port for connecting 4 and 6 mm inner diameter hose.
The pressure port is screwed to the meter by a standard G 1/8 thread, allowing the user to change them it with a different type of port, if necessary, to fit his specific needs.

HIGHLIGHTS

- universal barbed pressure port (+/-) for measuring absolute pressure and vacuum

- **Fast and accurate**

- **Backlit dot matrix/clear text display, multilingual**

- **Various measurement views available, including life chart display**

- **Data logger with files read out via USB (PRO 245 only)**

- **Statistical functions Min, Avg, Max**

- **Acoustic/optic alarm**

- **Foldable stand and magnet for flexible operation**

- **Shock and impact proof, IP 67 waterproof (except pressure ports)**

- **Long battery life and external power via USB**

- **Optionally available DAkkS/ACCREDIA certificate**

Making the unknown, known

CONTINUATION
CONFIGURATION & MEASUREMENT

Connection to PC
Via the USB C port, for viewing or downloading the files stored in the instrument internal memory (only PRO 215) or connecting to the application software **ProXware**.

Statistics
Detection of MIN, AVG (average) and MAX. The user can clear the statistical info to start a new statistical calculation.

Measurement specifications

Measuring range	0.0 ... 1700.0 hPa (mbar) abs. 0.00 ... 25.00 PSI abs. 0.0 ... 1300.0 mmHg (Torr) abs.
Resolution	0.1 hPa
Accuracy	Typ.: ± 2 hPa (at T: 5 .. 30 °C) Max.: ± 1.25 % FSS
Measurement rate	4 meas/s
Overpressure limit	max. ± 3000 hPa abs.
Compatible media	Air and non-aggressive dry gases

(*) FSS = 2 x full scale pressure

Ordering codes

PRO 241-2 *Art.No. 486239*	Absolute pressure hand-held gauge/vacuum gauge, integr. sensor, Device in carton box, incl. batteries, Quickstart, PVC hose, test-protocol, USB cable Universal pressure port for tube 6x1 mm (4 mm inner-Ø) or 8x1 mm (6 mm inner-Ø), 0.0 ... 1700.0 hPa abs
PRO 245-2 *Art.No. 486124*	Absolute pressure hand-held gauge/vacuum logger, integr. sensor, Device in carton box, incl. batteries, Quickstart, PVC hose, test-protocol, USB cable and software downloadable from Senseca website Universal pressure port for tube 6x1 mm (4 mm inner-Ø) or 8x1 mm (6 mm inner-Ø), 0.0 ... 1700.0 hPa abs
Other optional pressure ports must be ordered separately (see accessories).	

Accessories

GDZ-UT *Art.No. 479260*	Universal barbed pressure port for 4 and 6 mm inner Ø hose. Spare part - Included in the scope of supply.
GDZ-QC6 *Art.No. 479261*	Quick coupling pressure port for 4 mm inner Ø hose.
GDZ-ST6 *Art.No. 479466*	Screw coupling pressure port for 4 mm inner Ø hose.
GDZ-MCF *Art.No. 480221*	2.7 mm nominal Ø mini female quick coupling for 4 mm inner Ø hose.
GDZ-MCM *Art.No. 479467*	2.7 mm nominal Ø mini male quick coupling for 4 mm inner Ø hose.
CASEPRO-400 *Art.No. 486900*	Case for PRO Line: Recess for one PRO Line instrument, storage space, carrying handle, zipper, 415 x 245 x 70 mm (W x H x D)

General specifications

Channels	1 absolute 1 x universal barbed pressure port (+/-) for 4 and 6 mm inner diameter hose Interchangeable G 1/8 thread connection
Storage capacity (only PRO 245)	Up to 1 million data sets, file system based. Each data set includes date/time stamp and measurements of all channels. Data are stored in CVS files
Logging type (only PRO 245)	Automatic with manual start/stop
Logging interval (only PRO 245)	1, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 20, 30 min / 1 hour
Clock	User settable RTC Max. drift 1 min/month @ 25 °C
Display	140 x 160 dot matrix backlit LCD / visible area 42 x 50 mm Multiple choice of measurement screens: • Large digit single value • Multi-row • Statistical info (Min/Avg/Max) • Life chart view
User interface	Multilingual (de, en, it, fr, es)
PC connection	USB C Mass Storage Device (only PRO 245)
Power supply	4 x AA alkaline batteries External 5 Vdc via USB C (power adapter or PC USB port)
Power consumption	10 mA typ. with USB operation 15 mA typ.
Battery autonomy	> 250 h typ. continuous operation
Auto power off	User configurable Automatically disabled if external power is connected
Operating conditions	-5...50 °C 0...85 %RH non-condensing
Storage temperature	-25...65 °C (without batteries)
Protection degree	IP 67 (except probe connection) IK 04
Dimensions	170 x 78 x 38 mm
Weight	345 g
Housing material	ABS, TPE (side protection) Polyester (front panel)

Pressure inputs

V 1.0

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