

PRO 211-x

PRO 215-x

DIFFERENTIAL PRESSURE HANDHELD METER / DATA LOGGER

INTRODUCTION

PRO 211 and **PRO 215** are differential pressure high class professional handheld meters with a rich set of features, high grade robustness and operating comfort for safe and reliable use. PRO 215 also has data logging capability. PRO 215 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, depending on measuring range: Pa, hPa, kPa, MPa, bar, mbar, psi, kg/cm², inHg, mmHg, mmH₂O.

Data Logging (only PRO 215)

Large storage capacity: up to 1 million data, file system based.

The logged data are store in CVS 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 out 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.

Alarm

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

CONFIGURATION & MEASUREMENT

Sensors

The meters have an internal digital differential pressure sensor. Different ranges are available, depending on model. Zero and slope user corrections allows compensating any possible sensor drift with time, for the best measuring accuracy. The data logger is supplied with universal barbed pressure ports for connecting 4 and 6 mm inner diameter hose.

The pressure ports are screwed to the meter by a standard G 1/8 thread, allowing the user to change them with a different type of port, if necessary, to fit his specific needs.

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.



HIGHLIGHTS

- 2 x universal barbed pressure ports (+/-) for differential pressure
- Fast and accurate
- Backlit dot matrix/clear text display, multilingual
- Life chart display
- Data logger with files read out via USB (PRO 215 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)
- Optionally available DAkKS/ ACCREDIA certificate

InstruFiber
INSTRUMENTAÇÃO E FIBRA ÓPTICA

11 4172-0606
11 4386-0362

Measurement specifications

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|--------------------------------|---|
| Measuring range | PRO 21x-2: ±20.00 hPa PRO 21x-3: ±200.0 hPa PRO 21x-4: ±500.0 hPa PRO 21x-5: ±2000 hPa |
| Resolution | PRO 21x-2: 0.01 hPa PRO 21x-3: 0.1 hPa PRO 21x-4: 0.1 hPa PRO 21x-5: 1 hPa |
| Accuracy | ±0,15 %FSS (*) ± 1 digit typ. @ 25 °C ±1,5 %FSS ± 1 digit max. |
| Measurement rate | 4 meas/s |
| Overpressure limit | PRO 21x-2: ±100 hPa PRO 21x-3: ±1000 hPa PRO 21x-4: ±2000 hPa PRO 21x-5: ±3500 hPa |
| Temperature drift (ref. 25 °C) | ±0.002 %FSS/K typ. |
| Long-term drift | ±1 %FSS/ayear max. |
| Compatible media | Air and non-aggressive dry gases |

(*) FSS = 2 x full scale pressure

Ordering codes

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|---|--|
| PRO 211-x | Differential pressure meter. Supplied with universal barbed pressure ports for 4 and 6 mm inner Ø hose, 4 x AA alkaline batteries. |
| PRO 211-2 Art.No. 486241 | Range ±20 hPa |
| PRO 211-3 Art.No. 486124 | Range ±200 hPa |
| PRO 211-4 Art.No. 486242 | Range ±500 hPa |
| PRO 211-5 Art.No. 486243 | Range ±2000 hPa |
| PRO 215-x | Differential pressure meter/data logger. Supplied with universal barbed pressure ports for 4 and 6 mm inner Ø hose, 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website. |
| PRO 215-2 Art.No. 486244 | Range ±20 hPa |
| PRO 215-3 Art.No. 486125 | Range ±200 hPa |
| PRO 215-4 Art.No. 486245 | Range ±500 hPa |
| PRO 215-5 Art.No. 486246 | Range ±2000 hPa |
| Other optional pressure ports must be ordered separately. | |

Accessories

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|------------------------------|--|
| GDZ-UT-GE Art.No. 479260 | Universal barbed pressure port for 4 and 6 mm inner Ø hose. |
| GDZ-QC6-GE Art.No. 479261 | Quick coupling pressure port for 4 mm inner Ø hose. |
| GDZ-ST6-GE Art.No. 479466 | Screw coupling pressure port for 4 mm inner Ø hose. |
| GDZ-MCF-GE Art.No. 480221 | 2.7 mm nominal Ø mini female quick coupling for 4 mm inner Ø hose. |
| GDZ-MCM-GE Art.No. 479467 | 2.7 mm nominal Ø mini male quick coupling for 4 mm inner Ø hose. |

General specifications

| | |
|-----------------------------------|---|
| Channels | 1 differential 2 x universal barbed pressure ports (+/-) for 4 and 6 mm inner Ø hose Interchangeable G 1/8 thread connections |
| Storage capacity (only PRO 215-x) | Up to 1 million data sets, file system based. Each data set includes date/time stamp and measurement. Data are stored in CVS files. |
| Logging type (only PRO 215-x) | Automatic with manual start/stop |
| Logging interval (only PRO 215-x) | 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: <ul style="list-style-type: none"> • Large digit single value • Multi-row • Statistical info (Min/Avg/Max) • Chart view |
| User interface | Multilingual |
| PC connection | USB C Mass Storage Device (only PRO 215-x) |
| Power supply | 4 x AA alkaline batteries External 5 Vdc via USB C (power adapter or PC USB port) |
| Power consumption | 20 mA typ. |
| Battery autonomy | > 150 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 | 340 g ca. |
| Housing material | ABS, TPE (side protection) Polyester (front panel) |



Pressure inputs