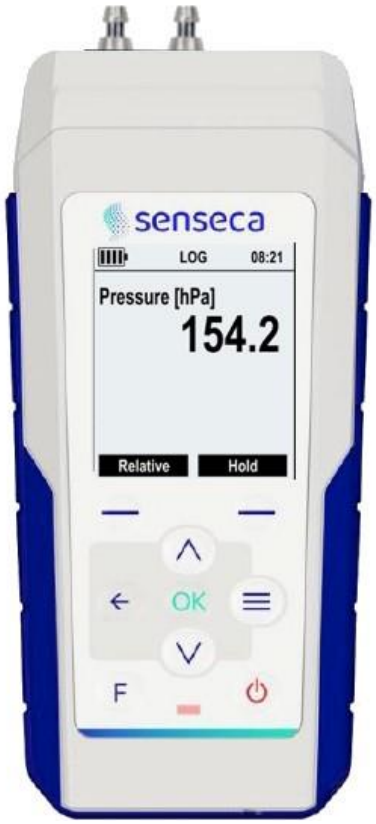
PRO 915

Differential pressure and temperature handheld data logger



- 2 x universal barbed pressure ports (+/-) for measuring differential pressure
- Pressure **zero** and **slope** user corrections
- Pressure **peak** detection
- Input for K-type thermocouple probes
- Calculation of air speed and flow rate in combination with a Pitot tube
- Fast and accurate
- Easy to use and read due to backlit **dot matrix/clear text** display
- Various measurement views available, including life chart
- Data logger with files read out via USB - no extra software necessary
- Statistical functions Min, Avg, Max
- Acoustic alarm with high/low thresholds and optional hysteresis
- List of favorite functions for quick access to the most used operations
- Built-in foldable stand and magnet for flexible operation
- Shock and impact proof
- IP 67 waterproof (except pressure ports and probe connection)
- Optionally available DAkkS/ACCREDIA certificates
- Long battery life and external power via USB

DESCRIPTION

PRO 915 is a differential pressure and temperature high class professional handheld data logger with a rich set of features, high grade robustness and operating comfort for safe and reliable use.

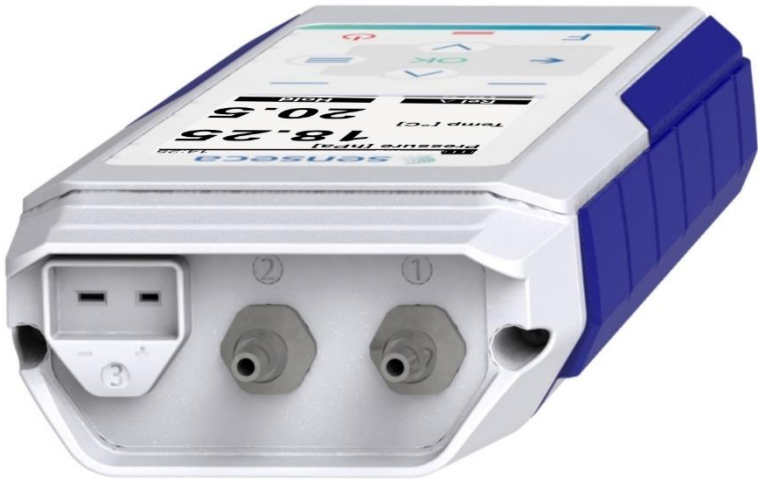
Pressure measurement

The meter has an internal ±200 hPa digital differential pressure sensor and is equipped with a “peak” functionality for detecting sudden variations of the pressure measurement.

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.



TC and pressure connections

Air speed and flow measurement

In combination with a Pitot tube, the meter can calculate the air speed. The tube constant is configurable.

If air speed measurement in a duct is performed, setting the duct section in the data logger, the air flow rate is also available.

Temperature measurement

The data logger is equipped with a miniature flat-pin input for connecting K-type thermocouple probes, which allows the instrument to detect the temperature as well.

This feature also allows taking advantage of Pitot tubes with integrated K thermocouple sensor.

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:

- Pressure: Pa, hPa, kPa, MPa, bar, mbar, psi, kg/cm^2, inHg, mmHg, mmH_2O
- Air speed: m/s, km/h, ft/m, mph, knot
- Air flow rate: m^3/h, l/s, cfm (cubic feet per minute)
- Temperature: °C, °F, K

Data logging

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 oud 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

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

For a more in-depth data analysis, an optional advanced version of the **ProXware** software is available.

Alarm

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

Statistics

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

PC connectivity

Via the USB C port, for viewing or downloading the files stored in the instrument internal memory or connecting to the application software **ProXware**.

Power supply

4 Powerful AA batteries, the low power design and the configurable auto-off feature are ensuring long operation. For permanent operation the instrument can also be powered via its USB C port. Any standard 5 Vdc power adapter or a PC USB port can be used.

Configurable LCD backlight for more energy saving options.

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.

Calibration support

Calibration reports or DAkkS/ACCREDIA certificates are available upon request.

The last calibration date is stored.

TECHNICAL SPECIFICATIONS

Measurement specifications

Measuring range	Pressure	±200 hPa
	Temperature	TC type K: -220…+1372 °C
Resolution	Pressure	0.1 hPa
	Temperature	0.1 °C
Accuracy	Pressure	±0.1% FSS (*) ± 1 digit typ. @ 25 °C ±1% FSS ± 1 digit max.
	Temperature	±(0.2 °C +0.2% of measured value) ± 1 digit + cold junction
Cold junction accuracy (Tc input)		±0.3 °C
Measurement rate		4 meas/s
Overpressure limit		±600 hPa
Pressure temperature drift (ref.25 °C)		±0.002 %FSS/K typ.
Long-term drift	Pressure	±1 %FSS/year max.
	Temperature	±0.1 °C/year
Compatible media		Air and non-aggressive dry gases

(*) FSS = 2 x full scale pressure

General specifications

Channels Pressure	1 differential 2 x universal barbed pressure ports (+/-) for 4 and 6 mm inner diameter hose Interchangeable G 1/8 thread connections
Temperature	1 miniature female flat-pin TC connector
Storage capacity	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	Automatic with manual start/stop
Logging interval	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) • Chart view
User interface	Multilingual (de, en, it, fr, es)
PC connection	USB C Mass Storage Device
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	Yes, 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 pressure ports and Tc K input) IK 04
Dimensions	170 x 78 x 38 mm
Weight	350 g approx.
Housing material	ABS, TPE (side protection), Polyester (front panel)

ORDERING CODES

PRO 915-2 Differential pressure and temperature data logger. Pressure range ±200 hPa. Supplied with universal barbed pressure ports for 4 and 6 mm inner diameter hose, 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website.

Art.No. 486133

K-type thermocouple probes must be ordered separately.

Other optional pressure ports must be ordered separately (see accessories).

Accessories

GDZ-UT

Universal barbed pressure port for 4 and 6 mm inner diameter hose.
Art. No. 479260
Spare part – Included in the scope of supply

GDZ-QC6

Quick coupling pressure port for 4 mm inner diameter hose.
Art. No. 479261

GDZ-ST6

Screw coupling pressure port for 4 mm inner diameter hose.
Art. No. 479466

GDZ-MCF

2.7 mm nominal diameter mini female quick coupling for 4 mm inner diameter hose.
Art. No. 480221

GDZ-MCM

2.7 mm nominal diameter mini male quick coupling for 4 mm inner diameter hose.
Art. No. 479467