senseca

PRO 915-2

DIFFERENTIAL PRESSURE AND TEMPERATURE HANDHELD DATA LOGGER

INTRODUCTION

PRO 915-2 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.

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 for each measured parameter: pressure, air speed, air flow rate and temperature.

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 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

Pressure measurement

The meter has an internal ±20 hPa digital differential pressure sensor.

Zero and slope user corrections allows compensating any possible sensor drift with time, for the best measuring accuracy.

Air speed and flow measurement

In combination with a Pitot tube, it 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 miniature flat-pin input for connecting K-type thermocouple probes allows the instrument to detect the temperature as well. This feature also allows taking advantage of Pitot tubes with integrated K thermocouple sensor.

Connection to PC

Via the USB C port, for viewing or downloading the files stored in the instrument internal memory 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

- Input for K-type thermocouple probes

- Calculation of air speed and flow rate in combination with a Pitot tube

- 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

- Acoustic alarm with high/low thresholds

- Built-in foldable stand and magnet for flexible operation

- Optionally available DAkkS/ ACCREDIA certificate

Making the unknown, known

Measurement specifications

Measurement units

Pressure	Pa, kPa, bar, mbar, inHg, inH$_2$O, mmH$_2$O
Air speed	m/s, km/h, mph, knot
Air flow rate	m^3/h
Temperatrue	°C, °F, K

Measuring range

Pressure	±20.0 hPa
Temperature	TC tipo K: -220…+1372 °C

Resolution

Pressure	0.1 hPa
Temperature	0.1 °C

Accuracy

Pressure	±0.15% FSS (*) ± 1 digit typ. @ 25 °C ±1.5% 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	±100 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

Ordering codes

PRO 915-2 *Art.No. 486133*	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.
K-type thermocouple probes must be ordered separately.	

Accessories

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 - pressure	1 differential 2 x universal barbed pressure ports (+/-) for 4 and 6 mm inner Ø hose Interchangeable G 1/8 thread connections
Channels - 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 measurement. Data are stored in CVS files.
Logging type	Automatic with manual start/stop
Logging interval	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 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
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	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	350 g ca.
Housing material	ABS, TPE (side protection) Polyester (front panel)

TC and pressure inputs

V 2.1