



# PRO 915 - Combination thermo- manometer, integrated pressure sensor

## 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 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**

### **Pressure measurement**

The meter has an internal  $\pm 20$  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.

---

<b>Storage capacity:</b>	Up to 1 million data sets, file system based Each data set includes date/timestamp and measurement. Data are stored in CSV files.
--------------------------	---

---

<b>Logging type:</b>	Automatic with manual start/stop
----------------------	----------------------------------

---

<b>Accuracy:</b>	Pressure: $\pm 0.1\%$ FSS (*) $\pm 1$ digit typ. @ 25 °C $\pm 1\%$ FSS $\pm 1$ digit max.  Temperature: $\pm(0.2\text{ °C} + 0.2\%$ of measured value) $\pm 1$ digit
------------------	---

---

<b>Temperature Input:</b>	Socket for 2-pin standard flat plugs Type K
---------------------------	---

<b>Cold junction accuracy (TC input):</b>	±0.3 °C
<b>Measurement rate:</b>	4 meas/s
<b>Overpressure limit:</b>	±100 hPa
<b>Temperature drift (ref. 25 °C):</b>	±1 %FSS/year max. (FSS = 2 x full scale pressure)
<b>Long-term drift:</b>	Pressure: ±1 %FSS/year max. Temperature: ±0.1 °C/year
<b>Compatible media:</b>	Air and non-aggressive dry gases
<b>Logging interval:</b>	1, 2, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 30 min / 1 hour
<b>Clock:</b>	User-adjustable date and RTC function (max. drift 1 min/month @ 25 °C)
<b>User interface:</b>	Multilingual (de, en, it, fr, es)
<b>PC connection:</b>	USB C (cable included), Mass Storage Device
<b>Power supply:</b>	4 x AA battery (included in the scope of delivery) External 5 V DC via USB C (power adapter or PC USB port)
<b>Power consumption:</b>	20 mA typ.
<b>Weight:</b>	350 g incl. battery
<b>Battery runtime:</b>	> 150 h typ. continuous operation
<b>Auto power off:</b>	user configurable Automatically disabled if external power is connected
<b>Housing material:</b>	Shock and impact proof, ABS, TPE (side protection), Polyester (front panel)
<b>Measuring range:</b>	Pressure: ±20 hPa  Temperature: K:-200...+1370 °
<b>Operating conditions:</b>	-5 ... +50 °C; 0 ... 85 % RH (non-condensing)
<b>Storage temperature:</b>	-25 ... 65 °C (without batteries)

<b>Display:</b>	140 x 160 dot-matrix LCD with backlight / visible area 42 x 50 mm, display of large-digit single values, statistical info (min/avg/max), chart view
<b>Dimensions:</b>	178 x 80 x 38 mm
<b>Standard functions:</b>	Acoustic/optic alarm, automatic power-off, Favorites menu
<b>Battery life:</b>	> 150 h typ. Continuous operation
<b>Current consumption:</b>	20 mA typ
<b>Data logger with read out via USB:</b>	yes
<b>Extras:</b>	Foldable stand and magnet for flexible operation
<b>Resolution:</b>	Pressure: 0.1 hPa Temperature: 0.1 °C
<b>Channels:</b>	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
<b>Accuracy typ. pressure:</b>	$\pm 0.15 \% \text{FSS} \pm 1 \text{ digit typ. @ } 25 \text{ }^\circ\text{C} \pm 1.5 \% \text{FSS} \pm 1 \text{ digit max.}$ (FSS = 2 x full scale pressure)
<b>Accuracy typ. temperature:</b>	$\pm(0.2 \text{ }^\circ\text{C} + 0.2\% \text{ of measured value}) \pm 1 \text{ digit} + \text{ cold junction}$
<b>Display units air flow rate:</b>	m <sup>3</sup> /h
<b>Display units air speed:</b>	m/s, km/h, mph, knot
<b>Display units pressure:</b>	Pa, kPa, bar, mbar, inHg, inH <sub>2</sub> O, mmH <sub>2</sub> O
<b>Display units temperature:</b>	°C, °F, K
<b>Long-term drift pressure:</b>	$\pm 1 \% \text{FSS/year max.}$ (FSS = 2 x full scale pressure)
<b>Long-term drift temperature:</b>	$\pm 0.1 \text{ }^\circ\text{C/year}$
<b>Measuring pressure:</b>	2 x universal barbed pressure ports (+/-) for 4 and 6 mm inner Ø hose Interchangeable G 1/8 thread connections

Measuring range pressure:	±20.00 hPa / ±2000 Pa
Measuring range temperature:	TC type K: -220...+1372 °C
Measuring temperature:	1 Miniature TC connector (flat plug)
Resolution pressure:	0,1 hPa
Resolution temperature:	0.1 °C

Article no.	Order Code	Version	Resolution	Connections	Scope of delivery	Data logger	Pressure connection	minim quanti
486133	PRO915-2	With data logger	1 Pa (0,01 hPa)	2x universal pressure port for tube 6x1 mm or 8x1 mm	device in carton box, 2 hoses, batteries, Quickstart, USB-C cable	Up to 1 million data sets, file system based	2x universal pressure port for tube 6x1 mm (4 mm inner-Ø) or 8x1 mm (6 mm inner-Ø)	

