

PRO 921/925

PORTABLE MULTIPARAMETER INSTRUMENT WITH THERMOCOUPLE INPUTS



www.senseca.com

INTRODUCTION

The **PRO 921/925** are high class professional multiparameter handheld meters with a rich set of features, high grade robustness and operating comfort for safe and reliable use in HVAC applications.

PRO 925 have data logging capabilities. Drop and impact protection is making it a perfect choice for field use, integrated pop-up stand helps in laboratory use.

The combination of thermocouple inputs for use of economic thermocouple probes and the digital input for connection of sensors out of the DX-Sensors portfolio is an innovative combination to suit practical requirements of combined measurements like surface or difference temperature and pressure (HVAC) or surface temperature and climate/humidity (building and energy measurement).

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 live chart of measurement history.

The HOLD feature allows freezing the measurements on display.

Many units of measurement are available, depending on the connected probes.

Data Logging (PRO 925 only)

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

The logged data are stored 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 out and evaluated without software necessarily needed.

Automatic log with configurable interval.

The comfortable data management software ProXware is downloadable at senseca.com - for free. 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.



HIGHLIGHTS

- Thermocouple input e. g. for Type K surface probes
- DX sensor input for wide range of interchangeable digital probes of DX-series, e. g. relative humidity, indoor air quality, pressure
- Backlit dot matrix/clear text display, multilingual
- Life chart display
- Data logger with files read out via USB (PRO 925 only)
- Foldable stand and magnet for flexible operation
- IP 67 waterproof, except TC inputs
- Optionally available DAkKS/ ACCREDIA certificate

CONFIGURATION & MEASUREMENT

Thermocouple-Input

The high precision compensated thermocouple input are intended to connect type K probes either as a pair for differential measurements (like in heating or cooling systems) or fast reacting surface sensors, which are physically best to be implemented as thermocouple construction rather than e.g. RTD probe.

Probes DX-Input

The meters communicate digitally with the probes of the DX series, allowing the use of longer probe cables (up to 10 m). The wide range of digital probes available allows measuring precision temperature, humidity, air quality IAQ, pressure, humidity, photo radiometric quantities and many more.

The digital probes are supplied factory adjusted with adjustment data stored internally, allowing for interchangeability without the need for recalibration when changing the probes.

Connection to PC

Via the USB C port, for viewing or downloading the files stored in the instrument internal memory (only PRO 925) or connecting to the application software ProXware.

As soon as connected, the instruments switch supply from battery to USB.

Statistics

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

Power supply

4 powerful AA alkaline batteries, the low power design and the configurable auto-off feature ensure 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 use in the field.



Thermocouple inputs and DX connection

Measurement specifications

Inputs	
2 Thermocouple	Type K: -220.0...+1372.0 °C / -364.0...+2501.6 °F
Digital DX	1 x M12 connector for DX digital probes
Resolution	
Temperature	0.1 °C/ 0.1 °F (via DX sensors 0.01°C)
Digital DX	According to sensor specifications
Accuracy	
Temperature	±0.2°C + 0.2 % of measured value) ± 1 digit
Digital DX	According to sensor specifications
Temperature compensation TC	automatic cold junction compensation
Cold junction accuracy	± 0.3 °C
Measurement rate	
Temperature	4 meas/s
Digital DX	1 meas/s
Long-term drift	±0.1 °C/year
Temperature	

Ordering codes

PRO 921 Art.No. 488743	Portable multiparameter meter with TC inputs. Supplied with 4 x AA Alkaline batteries
PRO 925 Art.No. 488744	Portable multiparameter meter with TC inputs and data logger. Supplied with 4 x Alkaline batteries, USB cable and software downloadable from Senseca website.
Probes must be ordered separately. Please also check for available standard Set-combinations	

Accessories

Relative humidity and temperature probes	
DX310 Art.No. 486793	Digital combined temperature and relative humidity probe, stem Ø 14 x 100 mm.
DX311-L01 Art.No. 486774	Digital combined temperature and relative humidity probe, stem Ø 14 x 132 mm, cable length 1 m
DX330 Art.No. 486786	Digital IAQ indoor air quality probe. VOC index, CO ₂ , temperature, relative humidity and atmospheric pressure probe
Thermocouple probes	
AX131-D3-130-L01-S-MF Art.No. 488774	Type K immersion probe, large handle Diameter: Ø3 mm, probe length: 130 mm, 1 m silicone cable, mini flat pin plug. Measuring range: -40 ... +550 °C
AX131-S15-HS-L01-S-MF Art.No. 486854	Type K surface probe with spring band, fast, large handle, Ø15 mm, not potential-free, length 130 mm, head straight, 1 m silicone cable, mini flat pin plug.
GTZ300 Art.No. 603287	Clip-on probe, type K, 1 m silicone cable, mini flat pin plug. Measuring range: -65 ... +150 °C
Air velocity/ air flow probes	
DX971	Hot wire anemometer probes <i>coming second half of 2025</i>
DX972	Vane anemometer probes <i>coming second half of 2025</i>
Other Accessories	
CASE PRO-400 Art.No. 486900	Case for PRO Line. Recess for one instrument, space for accessories, carrying handle, zipper. Dimensions: 415 x 245 x 70 mm (WxHxD).
For further available probes, please visit www.senseca.com .	

General specifications

Storage capacity (only PRO 925)	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 CSV files.
Logging type (only PRO 925)	Automatic with manual start/stop Single-shot logger (logging on keypress)
Logging interval (only PRO 925)	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 (de, en, it, fr, es)
PC connection	USB C Mass Storage Device/ Virtual COM Port
Power supply	4 x AA alkaline batteries External 5 Vdc via USB C (power adapter or PC USB port)
Power consumption	18 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 TC inputs) IK 04
Dimensions	170 x 78 x 38 mm
Weight	350 g approx.
Housing material	ABS, TPE (side protection) Polyester (front panel)