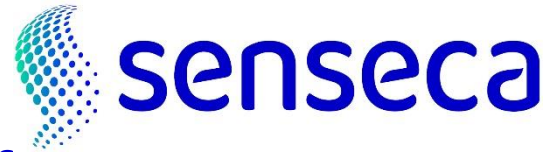


PRO D01 / PRO D05



Handheld multifunction meters/data loggers

1, 2 or 3-connections for digital probes



- 1 (PRO D01), 2 (PRO D05.2) or 3 sensor connectors (PRO D05.3)
- Wide range of interchangeable and automatically recognized digital probes can be connected
- 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 (only PRO D05)
- 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
- NiMH batteries rechargeable via USB

DESCRIPTION

PRO D01 (1-connector), PRO D05.2 (2-connector) and PRO D05.3 (3-connector) are high class professional multifunction handheld meters with a rich set of features, high grade robustness and operating comfort for safe and reliable use. PRO D05.2 and PRO D05.3 also have data logging capabilities and a USB-rechargeable battery system.

Probes

The data logger communicates digitally with the probe. The digital communication allows longer probe cables (up to 10 m).

The wide range of probes available allows measuring:

- Temperature
- Absolute, relative and differential pressure
- Humidity: relative and absolute, Dew Point, wet bulb temperature, mixing ratio, partial vapor pressure
- Air speed, flow rate (configurable duct section)
- Illuminance, luminance, irradiance, UVA, UVB, UVC, UVBC, PAR. Integral calculation with manual start/stop and setting of time/value limit.
- Indoor Air Quality (IAQ): CO₂ and VOC index

More will follow.

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

The probe type is automatically recognized, and the instrument is automatically set without any user intervention.



PRO D05.3 model – M12 sensor connectors

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 are available, depending on the connected probes.

Data logging (only PRO D05)

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.

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 (only PRO D05) 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.

While the basic model PRO D01 is designed for Alkaline batteries, all data logger variants PRO D05 are equipped with NiMH batteries and charging electronics. Any standard 5 Vdc power adapter or a PC USB port can be used (ensuring at least 900 mA for fast charging of the PRO D05.x batteries).

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 in combination with referring probes.

The last calibration date is stored.

TECHNICAL SPECIFICATIONS

General specifications

Inputs	1 (PRO D01), 2 (PRO D05.2) or 3 (PRO D05.3) 5-pole M12 connector for digital probes
Storage capacity (only PRO D05)	Up to 1 million data sets, file system based Each data set includes date/time stamp and measurements (of all channels for multi-channel data loggers) Data are stored in CVS files
Logging type (only PRO D05)	Automatic with manual start/stop
Logging interval (only PRO D05)	1, 5, 10, 15, 30 s / 1, 2, 5, 10, 15, 20, 30 min / 1 hour
Measurement rate	2 meas/s
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
Power supply	4 x AA batteries, PRO D01: 4 x AA Alkaline non rechargeable PRO D05: 4 x AA NiMH rechargeable External 5 Vdc via USB C (power adapter or PC USB port)
Power consumption	10 mA typ. (excluding probes)
Battery autonomy	> 200 h typ. continuous operation (fully charged batteries and backlight off). The effective autonomy depends on the number and type of connected sensors.
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 probe connection) IK 04
Dimensions	170 x 78 x 38 mm
Weight	PRO D01: 340 g approx. PRO D05.2: 370 g approx. PRO D05.3: 380 g approx.
Housing material	ABS, TPE (side protection), Polyester (front panel)

ORDERING CODES

PRO D01	Single-input handheld meter for digital probes. Supplied with 4 x AA alkaline batteries.	Art.No. 486134
PRO D05.2	2-input handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	Art.No. 486136
PRO D05.3	3-input handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	Art.No. 486137

Probes have to be ordered separately.

ATTACHABLE PROBES

Temperature

DX 111-00-130-L01	Digital Pt100 immersion probe, thin film sensor, stem Ø3 x 130 mm, cable length 1 m.	Art.No. 486231
DX 111-00-230-L01	Digital Pt100 immersion probe, thin film sensor, stem Ø3 x 230 mm, cable length 1 m.	Art.No. 486236
DX 115-00-300-L02	Digital Pt100 immersion probe, wire wound sensor, high precision, stem Ø3 x 300 mm, cable length 2 m.	Art.No. 486229

Relative humidity and temperature

DX 310	Digital combined temperature and relative humidity probe, stem Ø14 x 101 mm.	Art.No. 486793
DX 311-L01	Digital combined temperature and relative humidity probe, stem Ø14 x 132 mm, cable length 1 m.	Art.No. 486774

Pressure

DX 210-2.5hPa-00-L01	Digital differential pressure probe. Measuring range: ±2.5 hPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486674
DX 210-20hPa-00-L01	Digital differential pressure probe. Measuring range: ±20 hPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486675
DX 210-500hPa-00-L01	Digital differential pressure probe. Measuring range: ±500 hPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486676
DX 210-200kPa-00-L01	Digital differential pressure probe. Measuring range: ±200 kPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486677
DX 210-700kPa-00-L01	Digital differential pressure probe. Measuring range: ±700 kPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486678
DX 240-200kPa-00-L01	Digital absolute pressure probe. Measuring range: 0...200 kPa. M12 connector, incl. 1 m M12 connection cable.	Art.No. 486679

Photo-radiometry

DX 610-L02	Digital photometric probe for the measurement of illuminance, spectral response according to standard photopic vision, diffuser for cosine correction, incl. 2 m M12 connection cable.	Art.No. 486775
DX 620-L02	Digital radiometric probe for the measurement of irradiance in the spectral range 400...1050 nm, diffuser for cosine correction, incl. 2 m M12 connection cable.	Art.No. 486776
DX 630-L02	Digital quantum-radiometric probe for the measurement of photon flux in the PAR chlorophyll field (photosynthetically Active Radiation 400...700 nm), diffuser for cosine correction, incl. 2 m M12 connection cable.	Art.No. 486777
DX 640-UVA-L02	Digital radiometric probe for the measurement of irradiance in the 315...400 nm UVA spectral range, quartz diffuser for cosine correction, incl. 2 m M12 connection cable.	Art.No. 486778
DX 680-L02	Digital radiometric probe for the measurement of effective irradiance in the Blue light spectral band. Spectral range 380...550 nm, diffuser for cosine correction, incl. 2 m M12 connection cable.	Art.No. 486782
DX 640-UVB-L02	Digital radiometric probe for the measurement of irradiance in the 280...315 nm UVB spectral range, quartz diffuser for cosine correction, incl. 2 m M12 connection cable.	t.b.d.
DX 640-UVC-L02	Digital radiometric probe for the measurement of irradiance in the 220...280 nm UVC spectral range, quartz diffuser for cosine correction, incl. 2 m M12 connection cable.	t.b.d.
DX 640-UVBC-L02	Digital radiometric probe for the measurement of irradiance in the 210...355 nm UVBC spectral range, quartz diffuser for cosine correction, incl. 2 m M12 connection cable.	t.b.d.
DX 650-L02	Digital Photometric probe for the measurement of luminance, spectral response according to standard photopic vision, angle of view 2°, incl. 2 m M12 connection cable.	t.b.d
DX 690-PHOT-UVA-L02	Digital combined probe for the measurement of illuminance, with standard photopic spectral response, and irradiance in the UVA spectral range. Diffuser for cosine correction. The ratio between UV irradiance and illuminance in $\mu\text{W}/\text{lumen}$ is provided, incl. 2 m M12 connection cable.	t.b.d.
DX 690-Eeff-UVBC-L02	Digital combined probe for the measurement of effective total irradiance according to UV action curve (250...400 nm). Diffuser for cosine correction. The probe provides the effective total irradiance (E_{eff}), the effective irradiance in the UV-CB band and the UV irradiance, incl. 2 m M12 connection cable.	t.b.d.

Air quality

DX 330-00	Digital VOC index, CO ₂ , temperature, relative humidity and atmospheric pressure probe.	Art.No. 486786
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