




# PRO D0x - Multifunction handheld meter for DX - digital sensors

## INTRODUCTION

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.

## 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, 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 sets, 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 comfortable data management software ProXware is downloadable at [senseca.com](http://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.

## **CONFIGURATION & MEASUREMENT**

### **Probes**

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 temperature, pressure (absolute, relative and differential), humidity (relative, absolute, dew point and multiple calculated quantities); photo-radiometric quantities, indoor air quality (CO<sub>2</sub> and VOC index) and soil moisture.

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

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

### **Connection to PC**

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.

### **Statistics**

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

Combined with the DX 53x optical dissolved oxygen sensors the instruments are high class Oxymeters for pond management and fish farming, sewage treatment plants

<b>Storage capacity:</b>	only PRO D05: Up to 1 million data sets, file system based Each data set includes date/timestamp and measurement. Data are stored in CVS files.
<b>Logging type:</b>	only PRO D05: Automatic with manual start/stop
<b>Measurement rate:</b>	1 meas/s
<b>Logging interval:</b>	only PRO D05: 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
<b>Power supply:</b>	4 x AA cells (incl. in scope of delivery, PRO D05: rechargeable) External 5 V DC via USB C (power adapter or PC USB port)
<b>Power consumption:</b>	10 mA typ. (excluding probes)
<b>Weight:</b>	370 g incl. battery
<b>Battery runtime:</b>	> 200 h typ. continuous operation (fully charged batteries and backlight off). The effective autonomy depends on the number and type of connected sensors.
<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>	0-200 mg/l
<b>Operating conditions:</b>	-5 ... +50 °C; 0 ... 95 % 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>	170 x 78 x 38 mm
<b>Standard functions:</b>	Acoustic/optic alarm, automatic power-off, Favorites menu
<b>Data logger with read out via USB:</b>	only PRO D05
<b>Extras:</b>	Foldable stand and magnet for flexible operation
<b>Measuring:</b>	M12 connector for DX digital probes
<b>Channels:</b>	1 (PRO D01), 2 (PRO D05.2) or 3 (PRO D05.3) 5-pole M12 connector for digital probes
<b>Protection degree:</b>	IP 67 IK 04

Article no.	Order Code	Version	Measuring range	Cable	Display	Current supply	Alarm function
489355	PRO D05.2-SET_O530_L5	With data logger, 2 sensor inputs	Oxygen saturation 0.0 ... 200.0 % O2 sat Oxygen concentration 0.00 ... 20.00 mg/l (ppm) Temperature 0.0 ... 45.0 °C	5 m, replaceable, with meter-markings	Graphic display with backlight	4 x AA rechargeable NiMH batteries, charging connection: USB-C socket, charger not included	sound & light
489360	PRO D05.2-SET_O530_L3	With data logger, 2 sensor inputs	Oxygen saturation 0.0 ... 200.0 % O2 sat Oxygen concentration 0.00 ... 20.00 mg/l (ppm) Temperature 0.0 ... 45.0 °C	3 m, replaceable, with meter-markings	Graphic display with backlight	4 x AA rechargeable NiMH batteries, charging connection: USB-C socket, charger not included	sound & light

