DX 721



Digital wide range soil moisture probe



- Precise determination of the volumetric water content
- Maximum possible range of up to 100% VWC
- Integrated temperature measurement
- Interchangeable
- Low power
- Fast and accurate
- Designed for long term use and long term stability

DESCRIPTION

The DX 721 is a state-of-the-art soil moisture sensor – suitable for fast measurements in changing location or for long term monitoring in fixed locations.

With the suitable PRO D01 / PRO D05 meters this is a reliable reference for agricultural/horticultural applications.

The multichannel data logger meters PRO D05.2/.3 can combine up to 3 Sensors in one instrument – or combine the sensors with each of the available DX-digital sensors to incorporate a multiparameter measuring solution "in one hand".

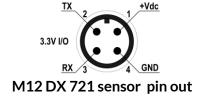
They are fully interchangeable- the sensors are ready adjusted. Just "plug and measure"!

The accuracy depends on the application.

With factory calibration up to \pm 3% (VWC) in mineral soils with medium salinity from 0 to 50% VWC. With soil-specific calibration, accuracy of up to \pm 1% (VWC) can be achieved.

Measurement in other substrates, e.g. mineral wool, coconut fiber, wood fiber, etc., possible.

Supplied with 2 or 5 m cable with 4-pin M12 connector.



TECHNICAL SPECIFICATIONS

Sensor	Soil Moisture	TDR high frequency, measuring area 110x30 mm
	Temperature	Pt100
Measuring range	Soil Moisture	0 60% VWC volumetric water content (up to 100% volumetric water content with limited accuracy)
	Temperature	-40+80 °C
Resolution	Soil Moisture	0.1% VWC
	Temperature	0.1 °C
Accuracy	Soil Moisture	typ. ±3%, depending on soil conditions
	Temperature	typ. ± 0.2 °C, max. ± 0.4°C over whole range
Operating conditions		-40+80 °C / 0100 %RH
Output & Power supply		DX-Sensor-Interface
Power consumption		Ø 0,5 mA typ.
Connection		4-pole M12 via cable
Dimensions		measuring area 110x30 mm 182mm x 30mm x 12mm (measuring area thickness ca 1.6mm) Cable length: 2, 5 or 10 m
Weight		95 g approx. with 2 m cable 150 g approx. with 5 m cable
Materials		In contact with soil: FR4 epoxy Handle: Luran / stainless steel screws Cable: PVC

STANDRAD ARTICLES

DX 721-L02-P Digital wide range soil moisture probe, 2 m PVC cable, DX connector M12

Art.No. 487434

DX 721-L05-P Digital wide range soil moisture probe, 5 m PVC cable, DX connector M12

Art.No. 487647

SUITABLE INSTRUMENTS

PRO D01 1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries

Art.No. 486134

PRO D05.2 2-channel 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-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable

batteries, USB cable and software downloadable from Senseca website.

Art.No. 486137