

STRIP SENSOR — MOISTURE DETECTION

smartex[®] dm Breitband

Linear sensor for detecting moisture in the installation area.



The sensor

Design, connection and delivery

The smartex® dm Breitband sensor serves as a linear sensor for detecting moisture in the installation area. The strip sensor consists of a rot-resistant plastic mesh with integrated stainless steel sensor wires.

The strip sensors are supplied with standard lengths for sensor and lead cable. The sensor is cut to length during installation as required. For use with the ProGeo® Flex or ProGeo® microBOX+ measuring units.



40 mm

Width of the sensor mesh



25 m

Sensor length
(can be cut during installation)



20 m

Lead length
(custom lead lengths available)

Sensor design

Rot-resistant PE plastic mesh with a filament diameter of 0.5 mm. Integrated conductors 2x V2A 2x2x0.3, 2x2x0.3 + 2x2x0.3 Cu tinned. Breaking load 250 kg, resistance 0.16 ohm/m.

Connection set and lead cable

Connection to the lead cable, with strain relief on the cable and sensor side and integrated cable break monitoring. The 20 m lead runs to a transfer point into the building or directly to the measuring unit.

Connection to the measuring unit

For use with ProGeo® Flex for small units and decentralised systems, or ProGeo® microBOX+ for large roof areas. Connection cable type LiYY 2x0.14 mm².

Standard length, cut to size

The sensor is supplied with a length of 25 m and a 20 m lead cable. On site, the sensor is laid and can be shortened by the installer. An end sealing tape protects the cut end of the sensor.

Technical data

smartex® dm Breitband

FEATURE	SPECIFICATION
Material	PE plastic mesh, filament diameter 0.5 mm
Width	40 mm
Sensor length	max. 25 m (cut to length on site)
Contact strands	2x V2A 2x2x0.3, 2x2x0.3 + 2x2x0.3 Cu tinned
Resistance	0.16 ohm/m
Breaking load	250 kg
Connection cable	Type LiYY 2x0.14 mm ²
Lead length	20 m
Supply voltage	max. 5 V
Connection set	Connection to the connection cable, with strain relief on the cable and sensor side and integrated cable break monitoring
Compatibility	ProGeo® Flex, ProGeo® microBOX+
Delivery	Standard length for cutting to size, disposable spool or coil

Subject to technical changes. Binding values for each version are provided on a project basis.



Request consultation

Since 1992, ProGeo® has been developing automated moisture monitoring systems for buildings. Contact us to design the system for your project — we plan sensors, units and evaluation to suit the application.

Phone: +49 33701 22–200

Fax: +49 33701 22–219

kontakt@progeo.com · www.progeo.com