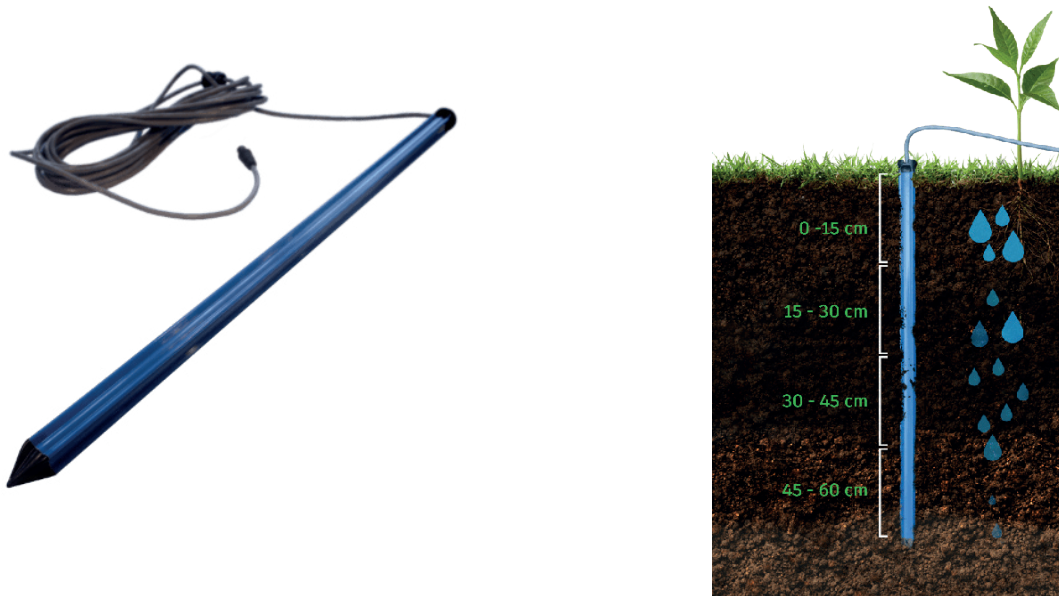


CODE:  
SDI - 12

**Description:** Multi-segment soil moisture and temperature profiling probe.

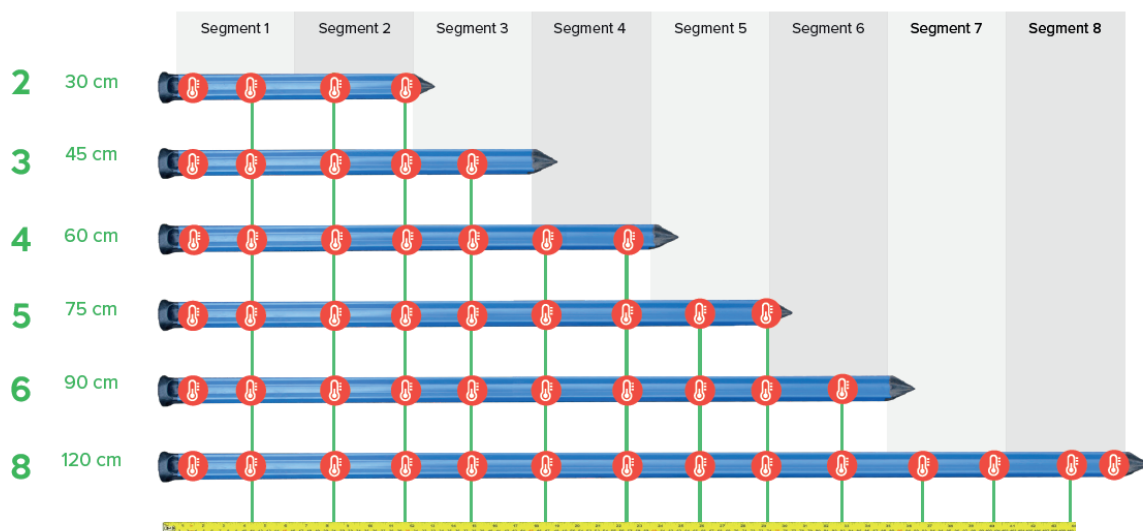
iSiinitzan Profile provides cost-effective measurement of volumetric water content over multiple depths using a single probe, eliminating the cumbersome excavation required for multiple sensors placed at different depths. It can be deployed in irrigation-sensitive zones to enable full control of precision irrigation needs, providing an understanding of water movement through the soil.



## TEMPERATURE SENSOR PLACEMENT

Choose the number of 15cm segments that are right for your application. The standard configuration places temperature sensors every 10cm.

= temperature sensor placement



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CODE:  
SDI - 12

### MOISTURE SPECIFICATION

ITEM	DESCRIPTION	CAPACITY
1	MEASUREMENT RANGE	0% to 100% of VMC
2	ACCURACY	±2,0 % *
3	PRECISION	< 0,2 %

### TEMPERATURE SPECIFICATION

ITEM	DESCRIPTION	CAPACITY
1	MEASUREMENT RANGE	-20 °C to +70°C (-4 °F to 158 °F)
2	ACCURACY	±0,5 °C
3	LOCATION	Surface every 10cm

### ELECTRICAL SPECIFICATION

ITEM	DESCRIPTION	CAPACITY
1	OUTPUT	SDI-12 V1.3 MODBUS (RS485 optional)
2	CONNECTION	Bare wire (optional 4 pin, IP66/IP68 rated environmental connector)
3	INPUT VOLTAGE	6 to 14 VDC max. 18 VDC Quiescent: <0,5 mA
4	CURRENT CONSUMPTION	Active: 15-20 mA (depending on number of segments) for 100mS.
5	WARM-UP TIME ON POWER	< 1 second

### ENVIRONMENTAL SPECIFICATION

ITEM	DESCRIPTION	CAPACITY
1	OPERATING TEMPERATURE	-20 °C to +70°C (-4 °F to 158 °F)
2	STORAGE TEMPERATURE	-40 °C to 85°C (-40 °F to 185 °F)

### PHYSICAL SPECIFICATION

ITEM	DESCRIPTION	CAPACITY
1	LENGTH	Each segment is approximately 15cm (5,9") long. Total length is the number of segment multiplied by 15cm. For example, a 3-segment probe is about 45cm long.
2	PROBE WEIGHT	2 segments: 292 g (10,3 oz.) 3 segments: 351 g (12,4 oz.) 4 segments: 408 g (14,4 oz.) 5 segments: 468 g (16,5 oz.) 6 segments: 526 g (18,6 oz.) 8 segments: 642 g (22,6 oz.)
3	CABLE WEIGHT	38 g per m (0,42 oz. per foot) 5 m (16,3 ft)
4	STANDARD CABLE	4xAWD22 dual-shielded, twisted pair, rated for direct burial
5	WARRANTY	1-year limited parts and labour.

\*8% to 42% VMC, in controlled laboratory condition; factory calibrated for most agricultural soils. In field applications, accuracy may slightly decrease due to the inevitable heterogeneity of soil texture, soil compaction, moisture and fluctuation in soil temperature. The accuracy may also decrease in difficult soil conditions (higher clay and salinity content). In normal conditions, sensors will maintain their accuracy from permanent wilting through field capacity in sandy loam through clay soils with less than 60% clay particles. Under moderately saline conditions. Sensors will maintain their accuracy up to 6 ds/m.

