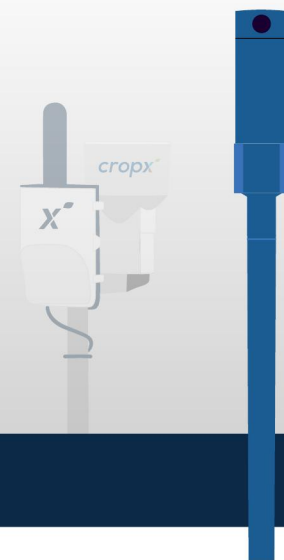


Apex

Technical Datasheet – Apex 1

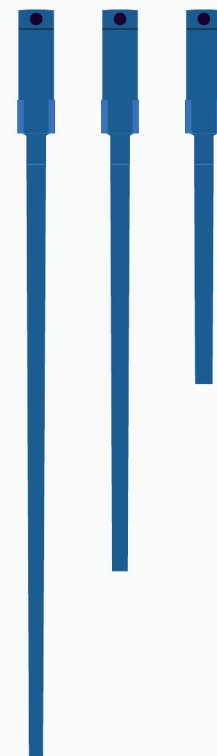


PRODUCT SPECIFICATIONS

Measurements	Soil moisture Electrical conductivity Temperature
Available lengths	30, 60 and 90cm
Voltage supply	5 volt nominal, range 5-12 V
Current consumption	130 mA active current
Operating conditions	-10 °C to 70 °C 0-100 RH%
Storage conditions	0 °C to 70 °C 0-85 RH%
Measurement duration	~1 second per depth

PHYSICAL DIMENSIONS

Overall length	
Apex 90	121 cm
Apex 60	91 cm
Apex 30	61 cm
Head diameter	55 mm
Leg diameter	
Apex 90	30 - 25,5 mm
Apex 60	30 - 27 mm
Apex 30	30 - 28,5 mm
Weight	
Apex 90	1,00 kg
Apex 60	0,83 kg
Apex 30	0,61 kg



MEASUREMENTS

Measurement depths	3, 6 or 9 every 10cm
Soil moisture measurement method	Vector Reflectometry
Soil moisture range and accuracy	Moisture VWC: 0% - 60% $\pm 1\%$
Soil pore water conductivity	ECpw(dS/m): 0.05 - 18.00 ± 0.1
Temperature range and accuracy	-20 °C to 70 °C $\pm 1\text{ °C}$

INTERFACE & MANAGEMENT

Communication	SDI-12
Connection	8-pins M16 male connector 3m cable with mating connector and open wires Red - V+ Yellow - Data Black - Ground
User interface	CropX web and mobile apps