

SMART FARM SENSING



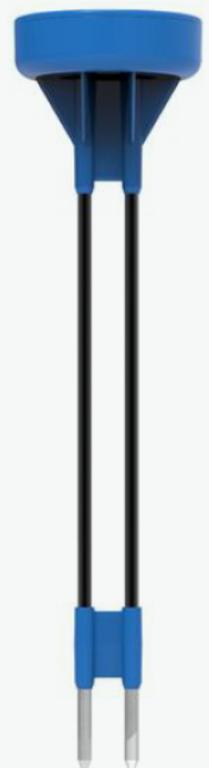
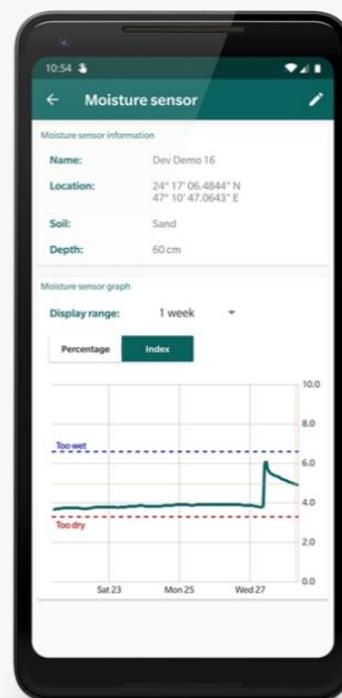
SOIL MOISTURE SENSING

Real-time soil monitoring

Maintaining ideal soil moisture conditions lowers the risk of failed crops and increases crop productivity. Monitoring soil moisture at various root depths is the ideal way to optimise soil conditions specific to each crop. Accurate and constant insight into soil moisture levels eliminates unnecessary irrigation.

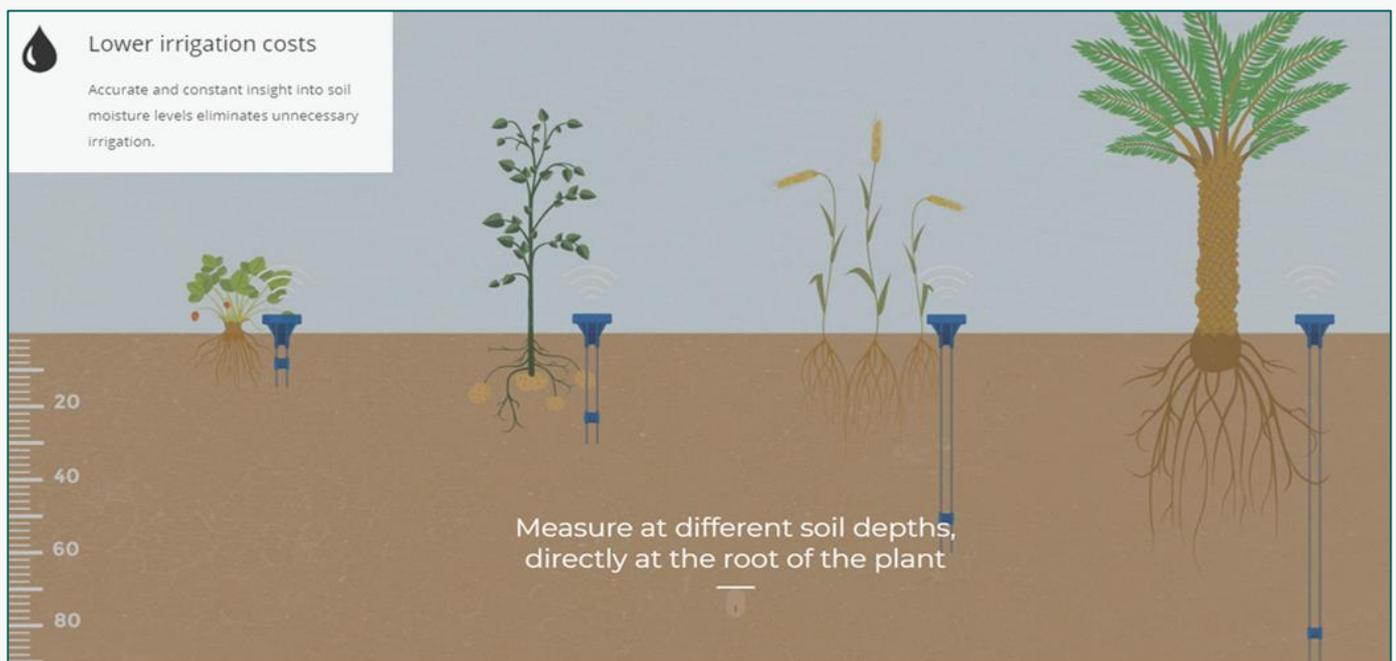
AgriOT ready

Seamless integration with AgriOT (www.agriot.app), our geospatial agriculture data management platform, through wireless communication to AgriOT wireless base station, allowing full field monitoring from iPhone, Android phone or desktop.



TECHNICAL SPECIFICATIONS

Probe length	15 cm	30 cm	60 cm	90 cm
Dimensions	20 x 8 x 8 cm	35 x 8 x 8 cm	65 x 8 x 8 cm	95 x 8 x 8 cm
Weight	0.21 kg	0.26 kg	0.35 kg	0.42 kg
Power	Non-replaceable internal Lithium battery included			
Operating voltage	3.0 V			
Life expectancy	3 - 10 years			
Operating environment	- 20 to + 80 degrees Celsius			
Waterproof enclosure	IP67 - suitable for outdoor environments			
Installation requirements	By hand or rubber hammer			
Measurement protocol	Soil resistivity and capacitance			
Measurement output	Volumetric Water Content (%)			
Measurement volume	6.2 cm ³			
Range	0 to the maximum water capacity of the soil by total volume - 53% for clay, 40% for sand and 83% for peat			
Accuracy	±20% relative accuracy at pF≥2			
Soil compatibility	Factory calibrated for 3 common soil types, as well as a generic soil. Custom specified calibration on request.			
Wireless protocol	LoRaWAN			
Frequency	863-870 MHz (EU), 902-928 MHz (USA) or 920-925 MHz (AU)			
Transmit power	14 dBm (EU) or 20 dBm (USA and AU)			
Default transmission rate	Between 4 - 24 uploads per day			



SMART FARM SENSING

Smart Farm Sensing provides products, services and solutions to the agriculture sector based on intelligent sensor data, remote sensing and geospatial information.

Our vision is to increase global agriculture productivity and sustain our future food chain with fully operational satellite, aerial and ground remote sensing data supply chains.

SMART FARM SENSING B.V.

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