



AQUAMONIX
Measure. Monitor. Master.

VWC (VOLUMETRIC WATER CONTENT) SOIL MOISTURE PROBE : 2-WIRE TECHNOLOGY

Tonick Watering
Two Wire Technology

The Aquamonix range of soil moisture probes are marketed globally under Tonick Watering.

Measuring soil moisture at multiple depths is important for optimising irrigation as it helps characterise the penetration of water throughout the root zone.

With the VMC Soil Moisture Probe, there is no need for multiple single-point sensors or excavating large holes to bury them. This saves you money and time.



FEATURES

- An ABS plastic and fibreglass body of waterproof construction
- Instantaneous sensor output with changes of water
- A 0 to 3V output for interfacing with most microcontrollers
- Reverse polarity protection
- No calibration required

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IRRIGATION
AUTOMATION



WATER
MANAGEMENT



REMOTE
MONITORING

www.aquamonix.com.au

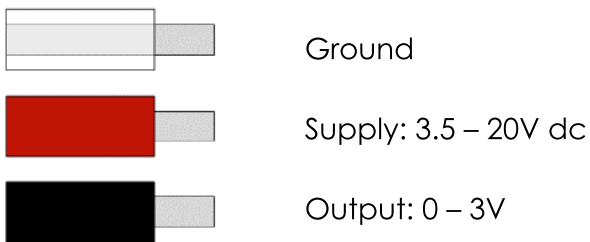
ELECTRICAL

- Operational current: < 13mA
- Supply voltage: 3.5 to 20V dc
- Output impedance: 10kΩ
- Output: 0 to 3V

OPERATION

- Operational temperature: -40°C to 85°C
- Accuracy at 25°C: 2%

WIRING

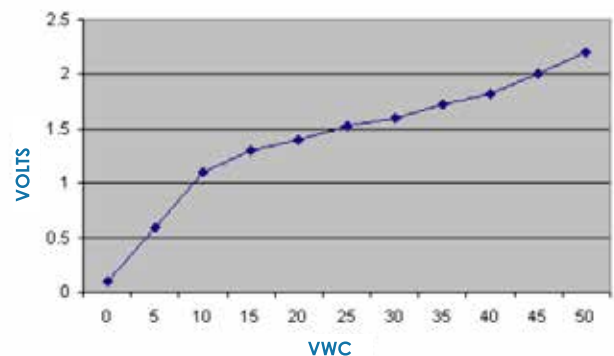


VOLTAGE

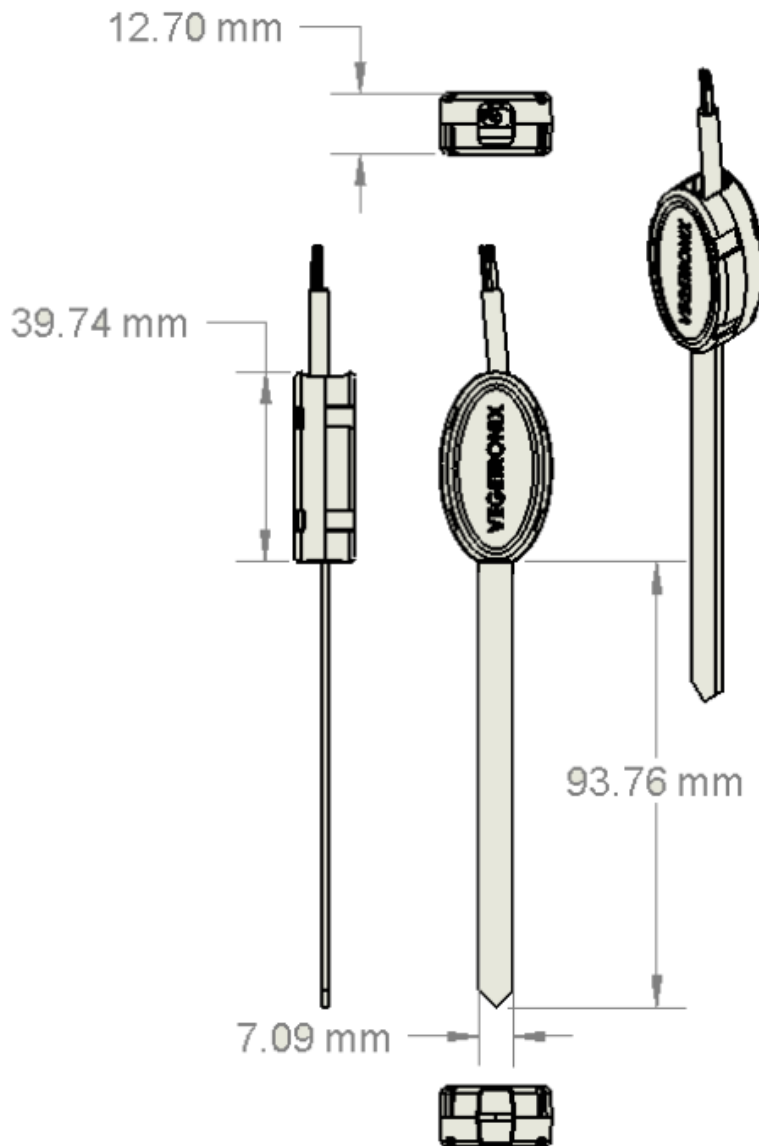
VOLTAGE RANGE	EQUATION
0 to 1.1V	$VWC = 10 * V - 1$
1.1V to 1.3V	$VWC = 25 * V - 17.5$
1.3V to 1.82V	$VWC = 48.08 * V - 47.5$
1.82V to 2.2V	$VWC = 26.32 * V - 7.89$

Volumetric Water Content to Voltage Curve

VH400 Rev A. 80MHz, R=68ohm
Volts Vrs. VWC 200a Miracle Grow Pottina Soil



SPECIFICATIONS



Approvals

- RoHS (European) compliant and lead free
- CE compliant