

SPECIFICATIONS

Length:

10 cm

Measurement:

Volumetric Water Content

Range:

0-40% VWC

Power:

line powered 7-32 V; DC

Output:

Current, correlated linearly with VDC

Resolution:

0.1% VWC

Measurement Time:

10 ms

Cable Length:

5 m

Temperature:

-40°C to +50°C

Electrical Interface:

2-wire analog, 4-20mA)

Accuracy:

±4 % VWC, medium textured mineral soils up to 1 ds/m

Echo EA-10 Sensor

The EA-10 is a standard ECH2O sensor similar in size and specification to the EC-10. The EA-10 is designed for use with industrial data acquisition and control systems. It has a standard 2-wire, 4-20 mA analog interface.

Like the classic EC-10 and EC-20 sensors, the EA-10 sensors are only for use in medium-textured soil types with low EC conditions. Their typical accuracy in these soil types is ±4% without calibration and 1-2% with soil-specific calibration.

Applications:

- Irrigation control of turf and home landscapes
- 2-wire moisture monitoring

Benefits:

- Very low power requirement
- High resolution
- Many measurements over a long period, with minimal battery usage

How It Works:

In essence, the EA-10 monitors the water budget of the soil in which it is placed. It senses water addition and water loss. If the soil is too wet, irrigation can be stopped. If the soil becomes too dry, additional irrigation time can be programmed



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