



● Three measurements, one probe

Measuring water content, temperature, and electrical conductivity is an essential part of commercial agriculture and environmental monitoring. Several probes are available that measure these three parameters, though many are limited by high cost and lack of robustness. The new ECH₂O-TE from Decagon Devices uses a much-improved water-content measurement derived from the original ECH₂O probe, an integrated thermistor temperature sensor, and a four-probe electrical conductivity (EC) array — and combines all three measurements into a single probe. Utilizing the unique ECH₂O circuit board design, the ECH₂O-TE is made of extremely rugged fiberglass with circuitry that is overmolded by thermoplastic and sealed with a xylene compound to guard against moisture intrusion. An integrated low-power microprocessor measures all three parameters and outputs to a readout device using RS-232 protocol. ECH₂O-TE's unique features and affordable price make it highly attractive for both researchers and commercial growers.

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