METER

SOLYX-14 (CDX TECHNOLOGY)
SOIL MOISTURE-TEMPERATURE-EC SENSOR

The future of soil moisture monitoring starts here
Get more out of every measurement with the CDX technology inside our SOLYX Go push-and-read sensor. With the push of a button, the SOLYX Go measure soil moisture, temperature, bulk electrical conductivity, and pore water electrical conductivity. Designed and proven through rigorous testing, the SOLYX Go provides accurate, repeatable measurements from device to device, season after season, year after year.

Data collection, simplified
Every measurement taken by the SOLYX Go is correlated with timestamps and GPS locations by the mobile device connected to the sensor. Review historical measurement data in ZENTRA Cloud to monitor the effectiveness of your irrigation strategy, or look at a daily map of measurements to easily identify portions of your field receiving too little—or too much—water.

Even better, importing this data into a ZENTRA Cloud project allows you to access and visualize SOLYX Go data from any web-connected device. Share your data directly with clients, stakeholders, groundskeepers, or other project team members with a link, or download it for further analysis in third-party software.

Easier EC mapping and spot-testing
Periodic pore water EC measurements can mean the difference between excessive salt buildup and timely soil flushes. That's where the SOLYX Go excels. Generate a complete map of soil moisture, bulk EC, and pore water EC across the soil surface in the time it takes you to walk your site. Take the guesswork out of conditions affecting your plants by performing spot-checks to compare current EC values with historical trends.

Keep the SOLYX Go with your other site visit gear and get high-quality, actionable data, not intuition based on appearance and texture.

Remote sensing validation
Remote sensing methods, such as aerial or satellite soil moisture measurements, are often used for their speed and scale of data collection. The precision and ease-of-use of the SOLYX Go allow you to collect soil moisture, EC, and temperature data at a greater resolution, so you can ground truth and scale your remotely sensed data.

Engineered for endurance
Whether you're measuring soil moisture a few times each season or every day of the year, SOLYX Go delivers long-term stability and reliability. The aluminum body and retracting needles are designed to provide good soil-to-sensor contact in every measurement, ensuring accuracy in every data point. Robust stainless-steel needles and epoxy sensor fill resist damage and corrosion, even under harsh conditions.

The result is a push-and-read sensor that's ready to deliver the data you need every time you pick it up.

bilmar

BİLMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ
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Key features

- Measurements are taken instantly, so you can keep your day moving without waiting for a sensor reading
- Measurement accuracy is unaffected by soil salinity
- High measurement-to-measurement and sensor-to-sensor accuracy out of the box and over the life of the device
- Robust, stainless-steel needles resist corrosion, bending, and wear due to regular use
- Measurement data is automatically logged and stored in **ZENTRA Cloud**—no complicated spreadsheet management, no manual downloads from sensors, and simple sharing with administrators, grounds managers, clients and other stakeholders

Specifications

MEASUREMENT SPECIFICATIONS

Volumetric water content (VWC)	**RANGE** **Mineral Soil Calibration:** 0.00-0.72 m^3/m^3 **Real Dielectric Permittivity (ε_a):** 1 (air) to 80 (water) **RESOLUTION (VWC)** 0.001 m^3/m^3 **ACCURACY (VWC)** **Generic Calibration:** ±0.03 m^3/m^3 typical in mineral soils **Medium Specific Calibration:** ±0.01 m^3/m^3 in any porous medium **Real Dielectric Permittivity (ε_a):** ±1 ε_a (unitless)
Dielectric measurement frequency	70 MHz
Temperature	**Range:** -40 to 60°C **Resolution:** 0.1°C **Accuracy:** ±0.03°C from 0 to +60°C , ±1°C from -40 to 0°C
Bulk electrical conductivity (EC_b)	**Range:** 0 to 20 dS/m (bulk) **Resolution:** 0.001 dS/m **Accuracy:** ± (5% + 0.01 dS/m) from 0 to 10 dS/m ± 8% from 10 to 20 dS/m

PHYSICAL SPECIFICATIONS

Dimensions	**Length:** 8.9 cm **Width:** 2.5 cm **Height:** 7.5 cm
Needle length	3.81 am or 7.62 cm
Enclosure Rating	IP 67
Connector Types	USB-C (charging only)

ELECTRICAL AND TIMING CHARACTERISTICS

Operating temperature range	**Minimum:** -40°C * **Maximum:** 60°C
Measurement duration	**Typical:** 50 ms
COMPLIANCE	Manufactured under EM ISO/IEC 17050:2010 (CE Mark) 2014/30/EU (EMC) via EN 61326-1:2013 and 2011/65/EU (RoHS) via EN 63000:2018 CISPR 11:2024 Group 2 Class A