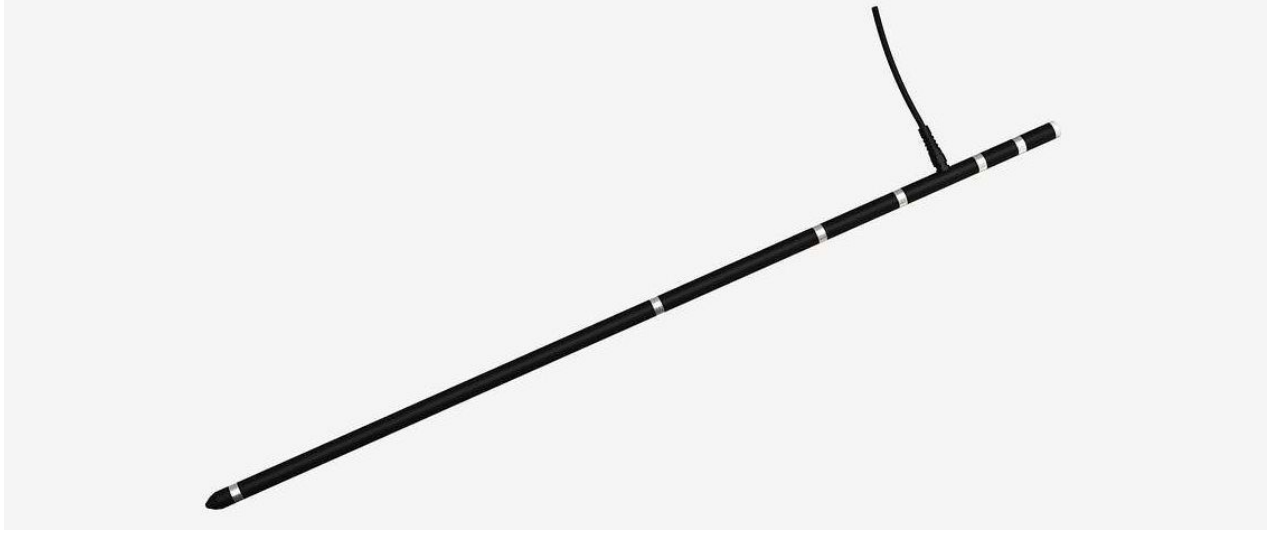




METER

TEROS-06 SOIL TEMPERATURE PROFILE PROBE



More accurate than other sensors

The research-grade TEROS-06 soil temperature profile probe accurately measures and records soil temperature over time at six depths exceeding WMO recommendations. It is regularly used in the field and in lysimeters. TEROS-06 contains digital sensors at -5 cm, -10 cm, -20 cm, -30 cm, -50 cm, -100 cm. And, unlike other profile probes on the market, every TEROS-06 sensor is individually calibrated for the highest possible accuracy ($\pm 0.1^{\circ}\text{C}$).

Minimize soil disturbance

TEROS-06 has a small diameter of 20 mm to minimize soil disturbance, plus it was specifically engineered to eliminate heat transfer. The fiberglass-reinforced plastic body has a very low thermal conductivity, so there is no temperature carryover between profile layers. Stainless steel rings ensure excellent heat conductance from the soil to the sensor, so you know you're only measuring soil temperature at a precise location.

Insanely simple setup

We designed the TEROS-06 soil temperature profile probe to be incredibly easy to install. Just auger a hole with the specially-made auger, and insert the probe. Then, plug the sensor into your ZL6 logger and start collecting data. The logger auto-recognizes the TEROS-06 for simplified setup and configuration. TEROS-06 also works with non-METER loggers.

Reliable data on the go

Easy and reliable data collection, maintenance, analysis, and sharing are all part of the TEROS experience. Combine the TEROS-06 and ZL6 logger with ZENTRA Cloud, where all data are connected and delivered anywhere in the world in near-real time.

Features

- Measures six depths exceeding WMO recommendations
- Temp sensors at -5 cm, -10 cm, -20 cm, -30 cm, -50 cm, -100 c
- Temperature accuracy: $\pm 0.1^{\circ}\text{C}$
- Plug and play with ZL6 data logger
- Visualize data instantly using ZENTRA Cloud



BILMAR BİLİMSEL ARAŞTIRMA VE MÜHENDİSLİK ANONİM ŞİRKETİ

Web page : www.bilmar.com.tr

E-mail : bilkim@bilmar.com.tr



METER

TEROS-06 SOIL TEMPERATURE PROFILE PROBE

Specifications

MEASUREMENT SPECIFICATIONS

Temperature	Range: -20°C to 50°C Resolution: 0.03°C Accuracy: ±0.1°C from 0°C to 30°C ±0.2°C from -20°C to +50°C
Measurement depths	5 cm, 10 cm, 20 cm, 30 cm, 50 cm, 100 cm

COMMUNICATION SPECIFICATIONS

Output	SDI-12 one-wire serial interface: DDI communications protocol, SDI-12 communication protocol RS-485 two-wire serial interface (M12 connector only): tensioLINK serial communications protocol, Modbus RTU communications protocol
Temperature	Operating range: -40 to 60°C
Data logger compatibility	METER ZL6 data loggers and any data acquisition system capable of 3.8 to 28.0 VDC power and serial interface with SDI-12 and/or RS-485 interface, Modbus RTU or tensioLINK communication.

PHYSICAL SPECIFICATIONS

Dimensions	Diameter: 2 cm Length: 104 cm
Cable length	4.5 m (standard) 75 m (maximum length using M12 connector and elongation cables)
Connector types	3.5-mm stereo plug connector 4-pin M12 plug connector
Operating temperature range	Minimum: -30°C Maximum: 60°C
Materials	Shaft: PA66GF30 Sensor elements: Stainless steel

ELECTRICAL AND TIMING CHARACTERISTICS

Supply voltage (VCC to GND)	Minimum: 3.9 VDC continuous Maximum: 28 VDC continuous
------------------------------------	---

COMPLIANCE (CE Mark)	Manufactured under ISO 9001:2015 EM ISO/IEC 17050:2010
-----------------------------	--