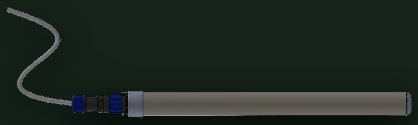
PRIKTAI · HR-SOIL · PROBE SPECIFICATIONS

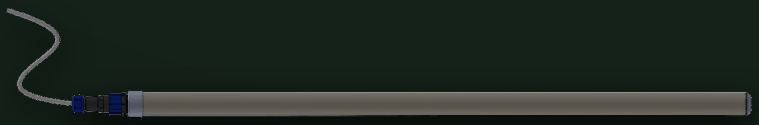
Choose the length to match your roots

HR-Soil FDR probes · 3 models, same electrical specs and connectivity

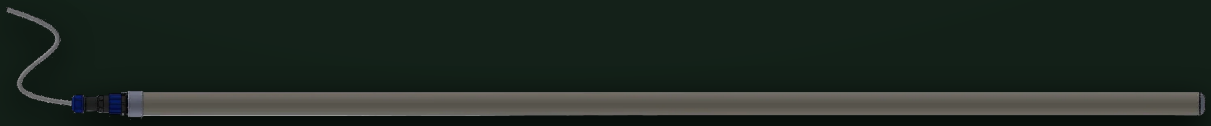
2CH
30 cm



4CH
60 cm



8CH
100 cm



3D renders shown at the same scale

HR-Soil 2-depth

30 cm long · 2 measuring depths

Home gardens · greenhouse vegetables · shallow-rooted crops

HR-Soil 4-depth

60 cm long · 4 measuring depths

Fruit trees · field crops · track water to the mid root zone

HR-Soil 8-depth

100 cm long · 8 measuring depths

Perennial trees · research plots · detailed soil profiles

Common specifications (all models)

Measured at every depth	Soil moisture (VWC %) · temperature-compensated moisture · soil temperature (°C)
EC (salinity / fertilizer)	Indicative value for reference — for trends in the soil, not a quantitative measurement
Depth spacing	Measuring rings 12 cm apart (centre to centre) on every model
Measuring principle	FDR — electrodes not in direct soil contact, no corrosion, for long-term burial · can be calibrated to your soil
Interface	RS485 Modbus RTU · default 9600 bps 8N1 · configurable Slave ID (unique ID per probe)
Power supply	DC 3.3–5.5 V (can be powered directly by the HR-Soil Gateway)
Cable & connector	Standard 5 m cable (longer on request) · IP67 waterproof probe and connector
Works with	HR-Soil Gateway (logs every minute, view on your phone, up to 8 probes via a splitter box) or any Modbus-capable PLC / data logger

For full details on installation, wiring and operation,
see the manual on our website

www.priktai.com/en/hr-soil.html#specs

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