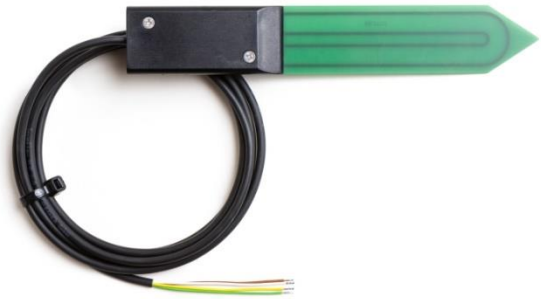
LPWAN miniUNI Truebner SMT100

LPWAN miniUNI Truebner SMT100 device has been designed for soil moisture, temperature and permittivity measurement by integrating outstanding Truebner SMT100 probe over SDI-12 interface.

MiniUNI Truebner SMT100 is designed for 1 SMT100 probe, however can be extended with more probes with different address as SDI-12 interface allows. Of course this can be done for the technologies where payload length is not limited to few bytes (e.g. Sigfox). We recommend using LoRaWAN or NBIoT technology for multiple probes solution.
The device is battery operated and battery lifetime has been optimized by selection of high quality and ultra-low power components. 5+ year between battery replacement can be expected with 6 messages per day. Enclosure is made of high-quality ABS plastic and has been designed to meet IP65. The device can be delivered in IP68 protection on demand, as for details before order.



Usage

- Irrigation systems
- Soil monitoring
- Agricultural prediction model data source

LPWAN TRUEBNER SMT-100 IP65 device	Parameter
Protection	IP65, IP68 on demand/resin on demand
Operating temperature	-40 to +80°C
Power supply	3.6V lithium battery 14505(M)/2600mAh, 2 batteries possible LS33600 17000mAh upon request and with IP68 only
Power consumption	<3,5uA in deep sleep/80mA transmission (Sigfox, LoRa) / 500mA (NBIoT)
Battery lifetime	Aprox. 100uAh/transmission (LoRa), 130uAh/transmission (NBIoT, Sigfox)
Supported LPWAN standards	Sigfox, LoRaWAN, NBIoT (one of selected upon order)
Dimensions in mm	From 107 x 65 x 33 + probe 182 x 30 x 12
Weight	From 145g
Soil probe	Truebner SMT100, see specification here: http://www.truebner.de/en/smt100
Accuracy	VWC 3%, temperature +/-0.2°C
Cable length	Upon request, max. 10m
Antenna/typical range	Helical, gain 2.5dBi/45 to 110km depends on LPWAN technology

SOLIDUS TECH s.r.o.
Na Poříčí 595, 738 01 Frýdek-Místek
Tel.: +420 739 822 476 | E-mail: info@solidustech.cz
www.solidustech.cz | www.iotcluster.cz