

Dual thermometer DS18B20/PT1000

PRODUCT DESCRIPTION

MiniUni digital thermometer is a device designed for temperature measurement in a wide range of measuring temperatures from -20°C to 120°C. Measurement takes place in regular time intervals from the rule of 1 per hour with subsequent immediate sending of measured values for further analysis. The measuring thermometer is equipped with a sensing element marked DS18B20, which according to the manufacturer of this sensor measures with an accuracy of 0.5°C.

USAGE

- Agricultural industry, measurements in bulk plant products
- Prediction of the occurrence of fungi and plant diseases
- Prediction of spontaneous combustion
- Optimizing the decomposition of plant waste
- Monitoring the temperature in peat bogs, or measuring the temperature in boreholes



FEATURES	PARAMETERS
Protection	IP65
Power supply	3.6V lithium battery 14500/2600mAh, possibility of installing 2 batteries
Energy consumption	<3.5uA in sleep/80mA transmit
Battery life	approx. 12,000 broadcasts
LoRaWAN	Complies with specification 1.0.2
Frequency band	868MHz, 8-channel support, Sigfox, NB-IOT, GSM
Dimensions	107 x 65 x 33 – radio unit with glands + 3m pole
Weight	150g
Temperature sensor	1x DALLAS DS18B20, sensor cable length 1m**
Measuring range	20°C – 120°C
Material	Fiberglass, aluminum/stainless steel* part with thermometer
Radio communication range	cca 45km outdoor
Configurability	UART – terminal, downlink
Sensor operating temperature range	-20°C – 80°C