

# Stable-LWEU-T-DI

## Temperature transmitter

The Stable transmitter has primarily been developed for demanding remote monitoring sites, such as pole and pad mounted transformers and power centers and rooms. The device has temperature measurement with both an internal and an external sensor and also 3 digital input channels for e.g. door switches.

With Stable you can cost-effectively connect the distribution substation to the remote monitoring circuit in a location where cable network connections are not available.

The device measures the temperature every 2 minutes and sends the reading to the cloud once an hour. In addition, if the measured temperature rises above e.g. +85 °C, or if the status of one of the three digital inputs changes, the data is sent to the cloud immediately.



## Applications



Construction and buildings

## Product highlights and features

- Very long battery life of 10 years
- Temperature measurement and 3 digital inputs in the same device
- The device also measures its own internal temperature



# Stable-LWEU-T-DI

## Temperature transmitter



### Environment

Storage conditions	-40...+70 °C, non-condensing
Operating conditions	-30...+60 °C, non-condensing
Protection class	IP67
Enclosure material	UV resistant ASA plastic

### Dimensions

Dimensions	151 mm x 90 mm x 40 mm
Weight	Approx. 250 g including batteries

### Temperature measurement (Pt100)

Sensor	Pt100
Measuring range	-200...+650 °C
Accuracy	0.05% rdg + 0.2°C at 25°C ambient
Thermal drift	0.01°C/°Ci
Cable length	<30 m

### Temperature measurement (Internal)

Measurement range	-40°C .. +125°C
Accuracy	Typically ±0.5°C

### Digital inputs

Inputs	3 digital inputs
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### Radio connection

Description	LoRaWAN standard, EU 868 MHz frequency range
Transmitter module	Murata ABZ-093 LoRaWAN modem
Antenna	Internal
Frequency	863-870 MHz (LoRaWAN 1.0.2 EU band)
Power	Max +14 dBm E.R.P.
Range	Depends on environment, line-of-sight up to 10 km
Transmission interval	Configurable: 5min / 10min / 15min / 20min / 30min / 1h / 2h / 3h / 4h / 6h
Measurement interval	Configurable: 1/2/3/4/5/10/15/20/25/30/45/60 min

### Power supply

Type	3.6 V Lithium Thionyl Chloride (3 x AA size)
Battery life	10 years with 1 hour transmission interval and 2 minutes measurement interval