

Engelmann Integrated Meter Module

LoRa Module

For SensoStar S3/S3C, LoRaWAN



LoRa Module is mounted inside an Engelmann SensoStar S3/S3C to deliver meter data to a receiving server via a LoRaWAN network. The product can achieve up to 11 years of battery life and can also be powered via PSU. It is energy-efficient, has a long communication range and can be retrofitted inside an already deployed meter. LoRa Module is easily configured through Elvaco OTC app (via NFC). With LoRa Module, Engelmann offers a meter communication module designed for customers that require a user-friendly and cost-effective solution.



Technical data

Mechanics

Dimensions 29 x 56 x 12 mm

Mounting In module slot of Engelmann SensoStar S3/S3C

Weight 9 g

Electrical connections

Supply voltage Internal meter battery (lifespan up to 11 years)

or PSU (Engelmann External PowerSupply)

Electrical characteristics

3.0 VDC Nominal voltage Power consumption (max) 50 mA Power consumption (sleep mode) $^{\sim}2.5~\mu A$

Environmental specifications

Operating temperature +5 °C to +55 °C

Operating humidity 0 to 93 % RH, no condensation

Operating altitude 0-2000 m Usage environment Indoors

Storage temperature -20 °C to +60 °C

Radio characteristics

Frequency 868 MHz Output power 14 dBm -135 dBm Receiver sensitivity

LoRaWAN characteristics

Device class Class A, Bi-directional

Activation OTAA or ABP

Data rate DRO-DR5 (250-5470 bit/s)

User interface

Indication for start-up / reboot / switch-off Green LED & Red LED

Push Button Start-up / reboot / switch off module

Elvaco OTC app, Downlink or Engelmann optical configuration tool Configuration

"Device Monitor"

Approvals

LoRa Alliance® LoRaWAN® Certified

EMC EN 301 489-1, EN 301 489-3