



RDT module SlimCom IoT LR

Groundwater and water quality monitoring via LoRaWAN™ radio transmission

- Remote data transmission via LoRaWAN™ technology
- The option to connect (modular system) SEBA data collectors with sensors for measuring water level, water temperature and conductivity
- Long battery life
- Slim design (installation starts from a pipe diameter of 2")
- Suitable for above- and below-ground measuring points
- Existing SEBA data collectors (Dipper-PT/Dipper-PTEC) can be easily retrofitted
- Highly reliable in operation thanks to redundant energy supply and XXL buffer storage



SlimCom IoT-LR

Do you have a LoRaWAN™ network and are you looking for robust, field-compatible sensors for monitoring groundwater levels and water quality parameters? Then we've got just the solution! The „SlimCom IoT-LR“ remote data transmission module has been specially developed and optimised for LoRaWAN™ networks. The slim design of the „SlimCom IoT-LR“ means it can be installed in above-ground measuring points, starting from a pipe diameter of 2“, as well as in below-ground measuring points or well shafts.

There are two tried and tested SEBA data collectors to choose from for the „SlimCom IoT-LR“, including sensors for measuring water level and temperature (Dipper-PT) and conductivity (Dipper-PTEC).

The smart SEBA modular system makes it possible for existing Dipper-PT/PTECs to be easily retrofitted with the „SlimCom IoT-LR“ by the user on site.

Maximum operational reliability is guaranteed by the „SlimCom IoT-LR“ redundant energy supply and SEBA data collectors, as well as through storage of > 1 million measured values. Faults in the „SlimCom IoT-LR“ or the LoRaWAN™ network do not have any influence on ongoing measurement operations. The data is secure and, if required, can be conveniently read out wirelessly on site using a Bluetooth module (BlueCon 2) with a smartphone/iPhone or a USB cable with a notebook (Windows).

Technical data

General:	Modem for LoRaWAN™ technology data transfer. Compatible with Dipper-PT and Dipper-PTEC with firmware ≥ 1.36
Modem:	SlimCom IoT-LR
Supported transmission:	LoRaWAN™ 1.0.2 (Class A)
Frequencies:	868 MHz (EMEA)
Antennas:	Pluggable, SMA connection, robust and weatherproof (Possible to connect an external antenna, e.g., for underfloor installation)
Interfaces:	1x RS 232 interface for configuration, 1x RS 485 interface for connecting the Dipper-PT/PTEC; Option: Bluetooth through additional SEBA BlueCon 2 RS 232 module
Power supply:	1. Standard: 4 x 1.5 V alkaline-manganese batteries (Baby / C) 2. Option: 4 x 3.6 V lithium batteries (Baby / C)
Operating temperature:	-40 °C ... +70 °C
Storage temperature:	-40 °C ... +60 °C
Housing:	Aluminum
Dimensions:	Ø 35 mm, length 448 mm
Protection class:	Standard version: IP 67 (when plugged in) Flood-proof version: IP 68 (when plugged in)



The right is reserved to change or amend the foregoing technical specification without prior notice.

Contact:

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