

## IoT - LoRaWAN Interface

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Connection of the universal measuring devices and energy meters with Modbus RTU via LoRaWAN. The IoT-LoRaWAN interface is a class C device and is connected to the measuring devices via the RS485 interface. The configuration can be done wirelessly via downlink packages. The open software interfaces enable easy integration of the system into the existing LoRaWAN infrastructure.

Type	IoT-LoRaWAN Interface
Item number	60.06.0863



## Technical specifications

RF-Transceiver		Fieldbus interface	
Frequency range	863 MHz – 870 MHz (EU frequency band)	Physical interface	RS-485
Transmission power	+14 dBm	Protocol / Mode	Modbus / RTU
Receiver sensitivity	-140 dBm	Data rate	1.2 / 2.4 / 4.8 / 9.6 / 19.2 / 38.4 / 57.6 / 115.2 kbit/s
LoRaWAN properties		Supply voltage	
Wireless interface	LoRaWAN V1.0 Class C (Class A optional)	Voltage range	• DC: 9 ... 24 V • Optional: Integrated lithium battery
LoRaWAN activation method	• Activation by Personalisation (ABP) • Over-The-Air-Activation (OTAA)	Power input	100 mW
Data encryption	AES-128	Ambient conditions	
LoRaWAN interface		Rated temperature range in operation	-10 - 50 °C
Data transmission	• Uplink to the LoRaWAN server • Downlink to the IoT interface	Foreign body and water protection	IP 65
Data transmission to the LoRaWAN server (uplink)	• Periodic (configurable): 1 min - several days/weeks • Event-based (configurable): Transmission when exceeding or falling below dedicated measured values	Housing fire resistance	Non-flammable housing: UL94-V0HB
Data transmission to the IoT interface (downlink): (transmission takes place via downlink packets)	• Settings on the LoRaWAN interface • Settings on the connected measuring device	Mechanical data	
Number of measured values per data packet: (Measured values can also be divided into several data packets)	max. 10 measured values (depending on the data type of the measured values)	Dimensions [mm]	84 x 82 x 85
LoRaWAN duty cycle	The LoRaWAN Remote Server must comply with the legal regulations according to ESTI EN 300-220-1 with regard to duty cycle. This regulatory restriction may limit the volume of data transmission in time.	Installation/Assembly	• With 2 screws and dowels (included in the scope of delivery) • With optional mounting clips for DIN top hat rail mounting
		Transport and storage	
		The following information applies to devices that are transported or stored in their original packaging.	
		Temperature range	-10 - 30 °C
		Standards and approvals	
		IoT interface:	EN 61000-4-2, EN 300-220-1 V2-4-1, EN 301 489 V1-6-1, RoHS, Radio Equipment Directive (RED), CE certified