

LORAWAN® MODULE

ULTRASONIC COMPACT ENERGY METER



APPLICATION

The LoRaWAN®* module is mounted inside a SHARKY 775 or a SCYLAR INT8 to transmit meter data to a receiving server via an LoRaWAN® network. The product is ideal for applications that require Long Range Wide Area Network and Low Power Wide Area Network (LPWAN). It is standard for wireless communication between battery-powered objects.

FEATURES

- Designed for SHARKY 775 and SCYLAR INT 8
- 3 different message formats
- Battery-powered or AC-powered module
- For battery-powered models: up to 11-year battery life
- Internal or external antenna
- Automatic radio activation
- NFC interface for module configuration
- R3 radio as a fallback for walk-by/drive-by scenarios

PRINCIPLE OF OPERATION

The LoRaWAN® module is installed in slot 1 of a SHARKY 775 or SCYLAR INT 8.
In addition, the LoRaWAN® module can easily be retrofitted into an already deployed SHARKY or SCYLAR meter.

MAIN FEATURES

LoRaWAN® Module		
Supply voltage		Powered by an internal battery or mains power supply (24 volts or 230 volts)
Battery lifetime		Up to 11 years* based on ECO mode
Dimensions	mm	43 x 37 x 9
Antenna connector		MCX female; internal antenna or optional external antenna

* Standard operating conditions and temperature.

ENVIRONMENTAL SPECIFICATIONS

LoRaWAN® Module		
Operating temperature	°C	+ 5 ... 55
Operating humidity	%	0 ... 93, RH (relative humidity), no condensation
Usage environment		Inside the meter (IP 54)
Storage temperature	°C	-20 ... +60

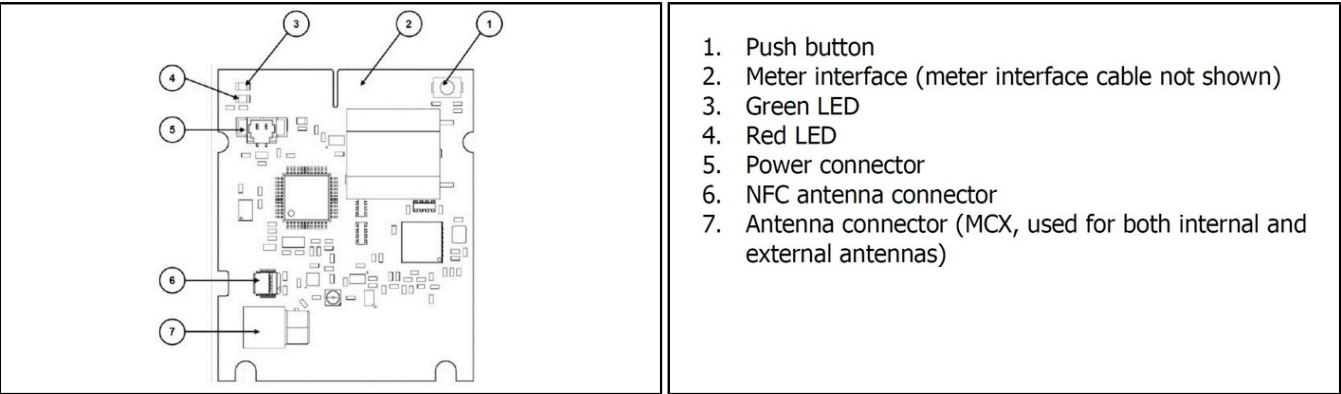
MOBILE NETWORK CHARACTERISTICS

LoRaWAN® Module		
Frequency band	MHz	868 (occupied bandwidth 200 kHz)
Transmit power (max.)	dBm	13
Receiver sensitivity	dBm	-135
LoRaWAN® version		1.0.2
Activation		Automatic after 3 hours of operation or via the OTC App; IZAR Mobile 3 (coming soon)

TELEGRAM CONTENT

	Standard	Combined heat/cooling	Compact
Energy	X	X	X
Cooling energy	-	X	-
Volume	X	X	-
Power	X	-	-
Flow	X	-	-
Forward temperature (C°)	X	X	-
Return temperature (C°)	X	X	-
Meter address	X	X	X
Error flags	X	X	X

PRODUCT DRAWING



Economic Actor Information

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

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