

ACR-CV-101L-M-D
M-Bus to LoRaWAN battery powered
Mechanical specification

Dimensions:	145 x 90 x 55 mm
Weight:	336 g with single battery / 475g with double battery
IP rating	IP67
Mounting	6 fixation points for mounting to the wall, tube or collar
Mounting holes	4x M4 pan screw and 2x oval hole for zip-tie fixation
HS code:	85269200

Operating conditions

Operational temperature:	-30 to +60 °C
Humidity:	0 to 85% RH (non-condensing)

Regulations and certifications

Standard	CE, RoHS
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Device configuration

Local device configuration	Over the cable via ACR-CONFIG and the configuration app
Remote device configuration	Optional via downlink
FUOTA support	Yes, proprietary
Configuration options	Configuration via LUA scripting interface

LoRaWAN

LoRaWAN specification	1.0.3
Registration method	OTAA by default, ABP configurable
Class	A by default, B and C configurable
Frequency	EU868
TX Power	12.7 dBm
Maximum payload length	51B uplink/downlink and up to 235B uplink/downlink <i>*dependant on the network and spreading factor</i>

M-Bus interface

Communication protocol	M-Bus EN 13757-3
Physical layer	M-Bus EN 13757-2
Device type	Master
Communication speed	300 - 9600 Bd
Maximum connected devices	5 UL or 7.5 mA
Compatibility	Any meter with M-Bus interface
Functionality	Transparent mode, VIF/DIF filtering, secondary addressing, primary addressing, wildcards, broadcast polling
Connector	WAGO 2604 CAGE CLAMP®

Battery specifications

Battery size	D-Cell / double D-Cell
Capacity	19 000 mAh / 38 000 mAh
Self-discharge	<1%
Rechargeable	No
Replacable	Yes
Battery connector	JST-XH 2pin

Packaging

1x M-Bus to LoRaWAN converter	1x installation manual
1x Battery	1x LoRaWAN 2JW0315-868-C675 antenna

Optional accessories

ACR-CONFIG	Configuration cable
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Ordering codes

ACR-CV-101L-M-D	M-Bus to LoRaWAN single battery pack
ACR-CV-101L-M-D2	M-Bus to LoRaWAN double battery pack