

ACR-CV-101L-R-D RS-485 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 IP65

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

Opearting conditions

Operational temperature: -30 to +60 °C

Humidity: 0 to 85% RH (non-condensing)

Regulations and certifications

Standard CE, RoHS

Device configuration

Local device configuration Over the cable via ACR-CONFIG and the configuration app

Remote device configuration Downlink via network

FUOTA support Yes

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

*dependant on the network and spreading factor

RS-485 interface

Modbus RTU, Modbus ASCII, Profibus DP, IEC 62056, proprietary

Communication protocol protocols
Physical layer RS-485

Device type Master by default, slave configurable

Communication speed 300 - 115 200 Bd

Maximum connected devices 96 UL

Compatibility Any device with RS-485 interface

Signals TX +-, RX +Polarization resistors 560 Ohms
Termination resistor 120 Ohms

Functionality Modbus addressing, two way RS-485 communication, configurable

RS-485 interface, RS-485 data receive (slave)

Connector WAGO 2604 CAGE CLAMP®

Optional auxiliary power supply*

Voltage 12V DC

Connector WAGO 2604 CAGE CLAMP®

*Version with auxiliary power supply has its own ordering code

Battery specifications	
Battery size	D-Cell / double D-Cell
Capacity	19 000 mAh / 38 000 mAh
Self-discharge	<1%
Rechargable	No
Replacable	Yes
Battery connector	JST-XH 2pin
Packaging	
1x RS-485 to LoRaWAN converter	1x installation manual
1x Battery	1x LoRaWAN 2JW0315-868-C675 antenna
Optional accessories	
ACR-CONFIG	Configuration cable
Ordering codes	
ACR-CV-101L-R-D	RS-485 to LoRaWAN single battery pack
ACR-CV-101L-R-D2	RS-485 to LoRaWAN double battery pack
ACR-CV-101L-R12-D	RS-485 to LoRaWAN single battery pack with 12V auxiliary power supply
ACR-CV-101L-R12-D2	RS-485 to LoRaWAN double battery pack with 12V auxiliary power supply