

**ACR-CV-101N-R-EAC**
**RS-485 to NB-IoT externally powered**

<b>Mechanical specification</b>	
Dimensions:	145 x 90 x 55 mm
Weight:	166 g
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
<b>Operating conditions</b>	
Operational temperature:	-30 to +60 °C
Humidity:	0 to 85% RH (non-condensing)
<b>Regulations and certifications</b>	
Standard	CE, RoHS
<b>Device configuration</b>	
Local device configuration	Over the cable via ACR-CONFIG and the configuration app
Remote device configuration	Downlink via network
FUOTA support	Yes, over the NB-IoT network
Configuration options	Configuration via LUA scripting interface
<b>NB-IoT</b>	
Bands	B1, B3, B5, B8, B20, B28
NB module	SIM 7020E
Supported protocols	UDP
Antenna	External
TX Power	23 dBm
SIM form factor	3FF, chip SIM on demand
Supported NB-IoT features	PSM, eDRX
Maximum payload length	512 B uplink, 1024B downlink*
<i>*might be dependant on the network. Tested with Vodafone network</i>	
<b>RS-485 interface</b>	
Communication protocol	Modbus RTU, Modbus ASCII, Profibus DP, IEC 62056, proprietary 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

**Device power supply**

Voltage	85 - 305 V AC
Frequency	47 - 63 Hz
Energy consumption	Max 4 W
Connector	WAGO 2604 CAGE CLAMP®

**Packaging**

1x RS-485 to NB-IoT converter	1x installation manual
1x NB-IoT 2JW1024 antenna; 4G LTE	

**Optional accessories**

ACR-CONFIG	Configuration cable
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**Ordering codes**

ACR-CV-101N-R-EAC	RS-485 to NB-IoT externally powered
ACR-CV-101N-R12-EAC	RS-485 to NB-IoT externally powered with 12V auxiliary power supply