SYCOUS®

elvaco

Elvaco Edge Gateway

Part Code	Name	Details
EL868ED	Sycous Edge wMBus Gateway (Battery)	Battery operated. Internal Wireless MBus antenna and internal LTE antenna.
EL869ED	Sycous Edge wMBus Gateway (230 V)	230 V power supply. Internal Wireless MBus antenna and internal LTE antenna.

The Elvaco Edge is a battery or mains powered wireless M-Bus gateway that reads over 1000 wireless M-Bus meters and reports the data over the mobile network using LTE-M and NB-IoT. It has an internal wireless M-Bus antenna and an internal LTE antenna, plus an integrated M-Bus master for wired meters. The Sycous range is available as a battery powered unit (EL868ED) or with a 230 V power supply (EL869ED).

Features:

- Reads over 1000 wireless M-Bus meters
- Wireless M-Bus modes T1, C1 and S1
- Integrated wired M-Bus master (4T)
- LTE-M and NB-IoT, bands 3, 8 and 20
- Internal wMBus and LTE antennas
- Battery life up to 16 years
- 230 V mains powered unit available
- IP55 wall mounted enclosure
- Set up locally by NFC (Elvaco OTC App)



Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

sycous.com

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Technical Datasheet
Elvaco Edge Gateway

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Technical Specification	
Communications	
Wireless M-Bus standard	EN 13757 4, OMS v4 compliant
Wireless M-Bus modes	T1, C1 and S1 (default T1 and C1)
Wireless M-Bus frequency	868 MHz
Meters read	Over 1000 wireless M-Bus meters
Wired M-Bus master	4T (4 unit loads, 6 mA), EN 13757
Wired M-Bus baud rates	300, 2400 and 9600 bit/s
Wired M-Bus cable	Up to 50 m, primary and secondary search
Option module	128T M-Bus master on the 20 W mains unit
Mobile network	LTE-M (default) and NB-IoT
LTE bands	3, 8 and 20
SIM	Nano (4FF), slide in
Antennas	Internal wireless M-Bus and LTE antennas
Data delivery	MQTT-SN or LwM2M 1.1
Cloud reporting	MQTT, HTTP webhook, FTP and email
Electrical	
Battery unit supply	38000 mAh, 3.6 V lithium (2 x D cells), internal
Battery life	Up to 16 years, depending on settings
230 V unit supply	100 to 240 VAC, 50/60 Hz (plus or minus 10 percent)
230 V unit power	3 W supply (4T) or 20 W supply (128T)
Real time clock	24 hour backup, under 2 seconds per day
Mechanics	
Casing	ABS, white
Dimensions	165 x 166 x 54 mm
Weight	Approx. 550 to 600 g depending on variant
Ingress protection	IP55
Mounting	Wall mount by bayonet or mounting tray
Accessories	DIN rail kit and pole mount kit, sold separately
Environmental	
Operating temperature	Minus 20 to 55 °C
Humidity	5 to 90 percent, non condensing
Altitude	0 to 2000 m
Storage temperature	Minus 20 to 60 °C
Interface and configuration	
Indicators	6 RGB LEDs and 1 push button
Local configuration	Elvaco OTC App over NFC
Remote configuration	LwM2M 1.1
Firmware update	Over the air (FOTA)
Approvals	
Directives	RoHS 2011/65/EU, EMC 2014/30/EU, LVD 2014/35/EU, RED 2014/53/EU
Standards	IEC 62368-1, EN 60950-22, IEC 60529 (IP rating)



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