



Water



ECO E1 & E2 Module

sonico® EDGE



Your benefits

- Serial End to End data communication:
Real time data communication from the meter to the Back-End system
- Detailed volume and flow rate information:
Cumulative, forward and reverse volume incl. information about actual flow rate in multiple units
- Temperature information:
Precise water and environmental temperature measurements
- Alarm status:
Detailed alarm status of the Sonico flowmeter
- High flexibility:
Multiple communication modules attached to the meter can operate simultaneously
- Water proof design:
Sealed housing (IP68)
- Plug & Play:
Easy and fast on-site installation with automatic NFC interface-detection

Properties

- Compatible with sonico EDGE flowmeter
- ECO E1 protocol with GWF Encoder based Sonico data
- ECO E2 protocol with extended Sonico data
- Simple installation and automatic start-up after connecting to meter
- Snap-in NFC module slots – no connectors or cables needed
- Continuous and tamper-proof connection, thoroughly reliable results
- Can be factory fitted or retrofitted at installation site without breaking metrological seal
- Battery powered module
- CE Approval

Applications

- Industrial application
- Building management system
- Data logging in combination with various data loggers providing:
 - > NB-IoT (Multiple Bands)
 - > 4G (Fall back options)
- Installation in harsh and flooded environment



Technical data

Specifications	
Approval	CE
Protection class	IP68
Protocol content E1 version	>Flow meter S/N >Manufacturer ID >Module status with Status information >Cumulative volume
Protocol content E2 version	>Flow meter S/N >Manufacturer ID >Module status with Status information >Cumulative volume >Flow rate and direction >Forward volume >Reverse volume >Water temperature >Environmental temperature >Meter alarms >Meter mode >External power status
Cable length/ supplied	3 m including cable joint for cable extension
Maximum cable length	30m
Weight	Approx. 250 g

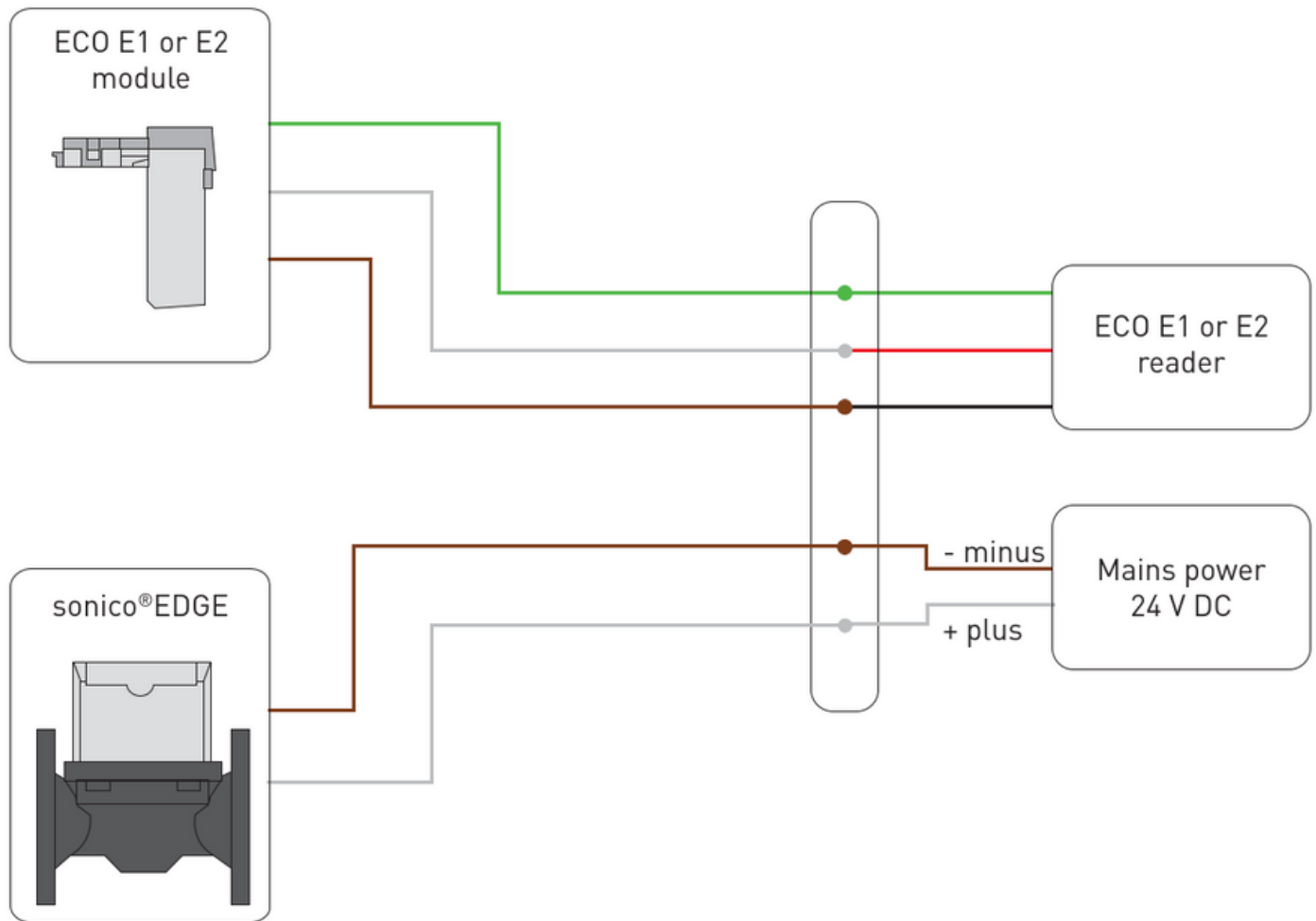
Power supply	
Battery	1 x Lithium Li/SOCL2 A size (not replaceable)
Typical battery lifetime	15 years (depending on environment) with 15 min read out cycles

Conditions

Operational and storage temperature	-20 to +70 °C
Relative humidity	0 to 100 % (IP68)
ECO E1: Min. req. FW version Sonico EDGE	COM 1.XX
ECO E2: Min. req. FW version Sonico EDGE	COM 2.XX

Information data package	Data Example	ECO E1	ECO E2
Flow meter S/N	12345678	x	x
Manufacturer ID	GWF	x	x
Firmware version	Vxy	x	x
Status information	- No error - Error - Module not attached - Module not responding - Wrong messages received	x	x
Cumulative volume	000000022222 L	x	x
Flow rate	20000 L/h		x
Forward volume	000000033333 L		x
Reverse volume	000000011111 L		x
Environmental temperature	21 °C		x
Water temperature	15 °C		x
Flow meter alarms	0		x
Flow meter status:	Meter mode: - Operation - Testbench Flow direction arrow: - No flow direction set - Arrow direction from right to left - Arrow direction from left to right External power: - Connected - Not connected		x

Electrical scheme



Cable connection

