



## AnyBridge Sensor Expansion modules

### Product features

- Compact design
- Low power
- Suitable for various applications

### Measurement/control functions

- Analog sensor interfaces
- Pulse counting interfaces
- Relay outputs

### Communication functions

- RS-485 data port
- 868 MHz ISM-band RF interface
- USB 2.0 service interface

### User interface functions

- Graphical display
- LED visual indicators
- User buttons

The AnyBridge Sensor Expansion modules are designed as enhancement for the AnyBridge Compact Controllers when applications demand more interfacing functionality.

### Feature-rich, multi-application

The AnyBridge Compact Controllers support a multitude of applications, from energy metering to remote inventory management and machine monitoring. By adding an AnyBridge Sensor Expansion module to a Compact Controller, even more feature-rich applications can be implemented with an abundance of interfaces.

### Straightforward integration

By design, an AnyBridge Sensor Expansion module seamlessly integrates with the Compact Controller and is automatically supported. Alternatively, the AnyBridge Sensor Expansion modules can also be operated stand-alone or as bus devices with an AnyBridge Controller serving as bus master. Like the AnyBridge Compact Controller, the AnyBridge Sensor Expansion module has a USB 2.0 service interface for local configuration and interaction.

### Any application, anywhere

A wide range of applications can be served with the various AnyBridge Sensor Expansion modules. An overview of the product versions is provided below.

Sensor Expansion modules					
Interfaces/features*	Sense and control	Environmental monitor	Drinking water monitor	Air quality monitor	Wireless datacollector
0-3 VDC analog voltage sensor interfaces	-	4	-	-	-
0-5 VDC analog voltage sensor interfaces	4	-	-	-	-
4-20 mA analog current sensor interfaces	4	-	-	-	-
Resistance measurement interfaces	-	2	-	-	-
Pt-100 temperature sensor interfaces	-	1	1	-	-
S0 pulse counting interfaces	-	-	12	-	-
0-5VDC pulse counting interfaces	4	-	4	-	-
Potentialfree contact pulse counting interfaces	-	4	-	-	-
Relay outputs	2	-	2	-	-
RS-485 data communication port	1	1	1	1	-
868 MHz ISM-band RF interface	1	-	1	-	1
USB 2.0 configuration interface	1	1	1	1	1
Graphical display	1	-	-	-	-
LED visual indicators	1	1	1	1	1
User buttons	3	-	-	-	-

(\*) n: number of interfaces interface, -: not available

## Product specifications

### Measurement/control interfaces

Analog sensor interfaces:

- 4-20 mA
- 0-5VDC ratiometric
- 0-3VDC ratiometric
- Pt-100 sensor interface (3-wire)
- Resistance measurement (0 - 100kΩ)

Pulse counting interfaces:

- Potentialfree
- 0-5VDC pulse
- S0 meter interface

Control interfaces:

- Relay, 24VDC, 16A

### Communication interfaces

868 MHz ISM-band RF interface  
RS-485 communication interface  
USB 2.0 service interface

### User interface functions

Graphical display: 240x320 pixels, RGB  
Power-on LED  
Bi-color LED visual state indicator  
User buttons

### General specifications

Power supply: 24VDC  
Power consumption (typical): 1.5 mW  
Power consumption (max.): 2.5 W  
Regulatory compliance: EN 61000-1, EN 61000-3-2, EN 61000-2-2, EN 61000-6-3, IEC 60950  
Operating temperature range: -20/+60 °C