



Signal Conditioner Detachable Communications Module

Item number: PGMMODC1

The Signal Conditioner Detachable Communications Module converts a wide array of sensors and analog device signals measured by the device to a Modbus communication line signal. Modbus RTU protocol is supported using a serial RS-485 communication wiring.



Add Modbus RTU RS-485 serial communication to AFCM and IAMS products

Features and benefits

- ✓ **Modbus RTU protocol interface over RS-485**
Modbus RTU protocol is supported using a serial RS-485 communication wiring. Modbus parameters such as address, baud rate, stop bit(s), and parity bit are configured from the display, which also stores parameters.
- ✓ **Easy to read display**
Dot matrix LCD display. The display can be rotated 180° from the menu for upside-down installation. Scrolling help available in 7 languages.
- ✓ **Full PGM functionality**
Unit programming, process signal monitoring and diagnostics handling
- ✓ **Advanced features**
Programming access can be blocked by assigning a password that is saved in the device to ensure a high degree of protection against unauthorized modifications to the configuration.
- ✓ **Designed for harsh environments**
Engineered to deliver uncompromising performance in demanding environments.
- ✓ **Convert signals to Modbus network**
Convert uni- and bipolar mA and voltage signals, potentiometer, Lin. R, RTD and TC signals to a Modbus communication signal. Any signal coming from or going to I.S. classified area—AI, AO, DI and DO—can be converted to a Modbus network.
- ✓ **Simple operation**
Display can be used to read the process signal, simulate the output signal, indicate sensor errors and internal module errors. All individual unit operating parameters can easily and quickly be configured by using the Modbus communication or by using the front display menu.
- ✓ **Versatility on demand**
The PGMMOD01 can be moved from one device to another. The individual system IAMS/AFCM device configuration of a transmitter can be saved and downloaded to subsequent transmitters.
- ✓ **Fully isolated**
High safe galvanic isolation of 2.5 kVAC between the serial wiring and the connected system IAMS/AFCM units. Multidrop half-duplex connection via shielded RJ45 connector.
- ✓ **Industry certified**
UL-listed approval. FM-approved for installation in Division 2 hazardous locations.

Signal Conditioner Detachable Communications Module



General

Net Weight (g)	30.05047
Packed Weight (g)	30.05047
Operating Temperature °C Min	-20
Operating Temperature °C Max	60
Storage Temperature °C Min	-20
Storage Temperature °C Max	85
Relative Humidity	< 95% RH (non-cond.)
Power Consumption (W)	0.15
Maximum Installation Altitude (m)	2000
Packaging Material	Cardboard
Warranty (years)	2

Identification and Status

Product ID	PGMMODC1
Country of Origin	United States of America (the)
HS Code	8538909999
Dual Usage	No

Physical Features

SD Card Slot	No
Flash Drive	No
Contains Battery	No

Certifications and Standards

Protection Class IP	IP20
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Signal Conditioner Detachable Communications Module



Certifications and Standards	
RoHS Compliant	No
CE	Yes
FCC	No
UKCA	No
UL	Yes
ATEX	No
DNV	No
KC	No