4-20 mA – Modbus Smart Sensor Connectivity Kit

SENSING INCREDIBLE THINGS

OMEGA™
a spectris company

SmartProbe Interfaces

What is a SmartProbe

- Sensor interface with integrated MEMS sensor technology
- Expanding family of devices that include:
  - Temperature, Barometric Pressure, Humidity, Dewpoint, Acceleration, Tilt, Vibration, Gas, Particle Measurement and others
- Provides uniform multi-sensor interface across all sensor types.
- Integrated Time Stamping of all measurements
- Integrated Data & Event Logging
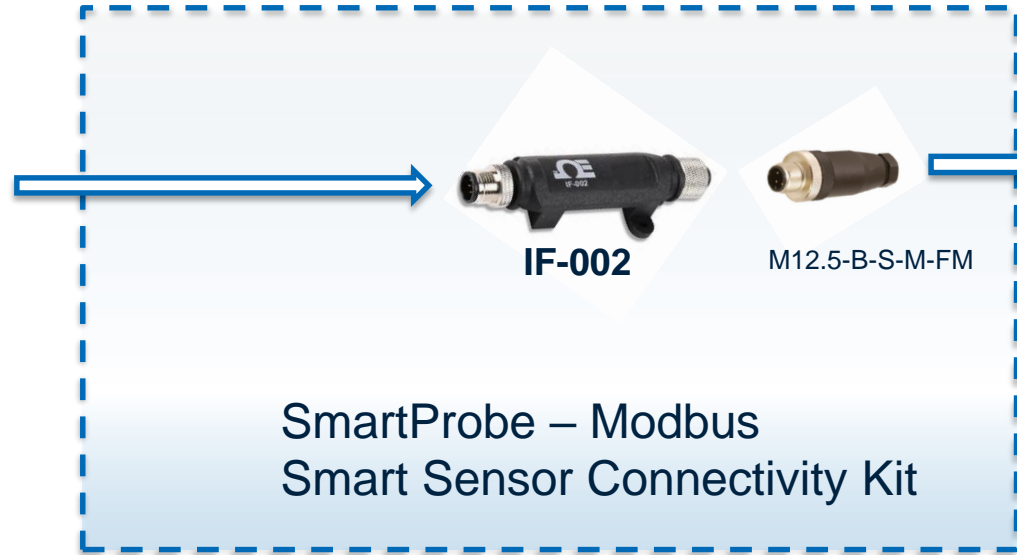- Integrated control and alarm outputs
- Low Power

Advantages of SmartProbe Technology

➢ Standard interface across all sensors

➢ Plug & Play – self identifying sensor type automatically recognized by network device.

➢ Low power operation for battery powered applications

➢ Data Assurance timestamping, data logging and measurement traceability

➢ Autonomous operation with integrated control and alarm outputs
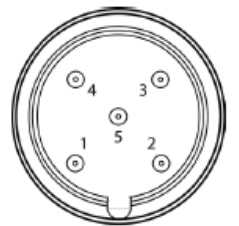
SmartProbe – Modbus Smart Sensor Connectivity Kit

SmartProbe Device

IF-002

M12.5-B-S-M-FM

SmartProbe – Modbus
Smart Sensor Connectivity Kit

SmartEdge Gateway
(Modbus Master)

Up to 32 RS485 Devices

- ➢ **IF-002** → Smart Sensor to Modbus conversion
- ➢ M12.5-B-S-M-FM → 5 pin Screw Terminal connector (B type)

- ➢ IF-002 Supports up to 32 devices on RS485 Serial Channel

Pin	Connection
1	Bus Power (5-36 Vdc)
2	RS485 Data + (A')
3	GND
4	RS485 Data – (B')
5	SHIELD

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