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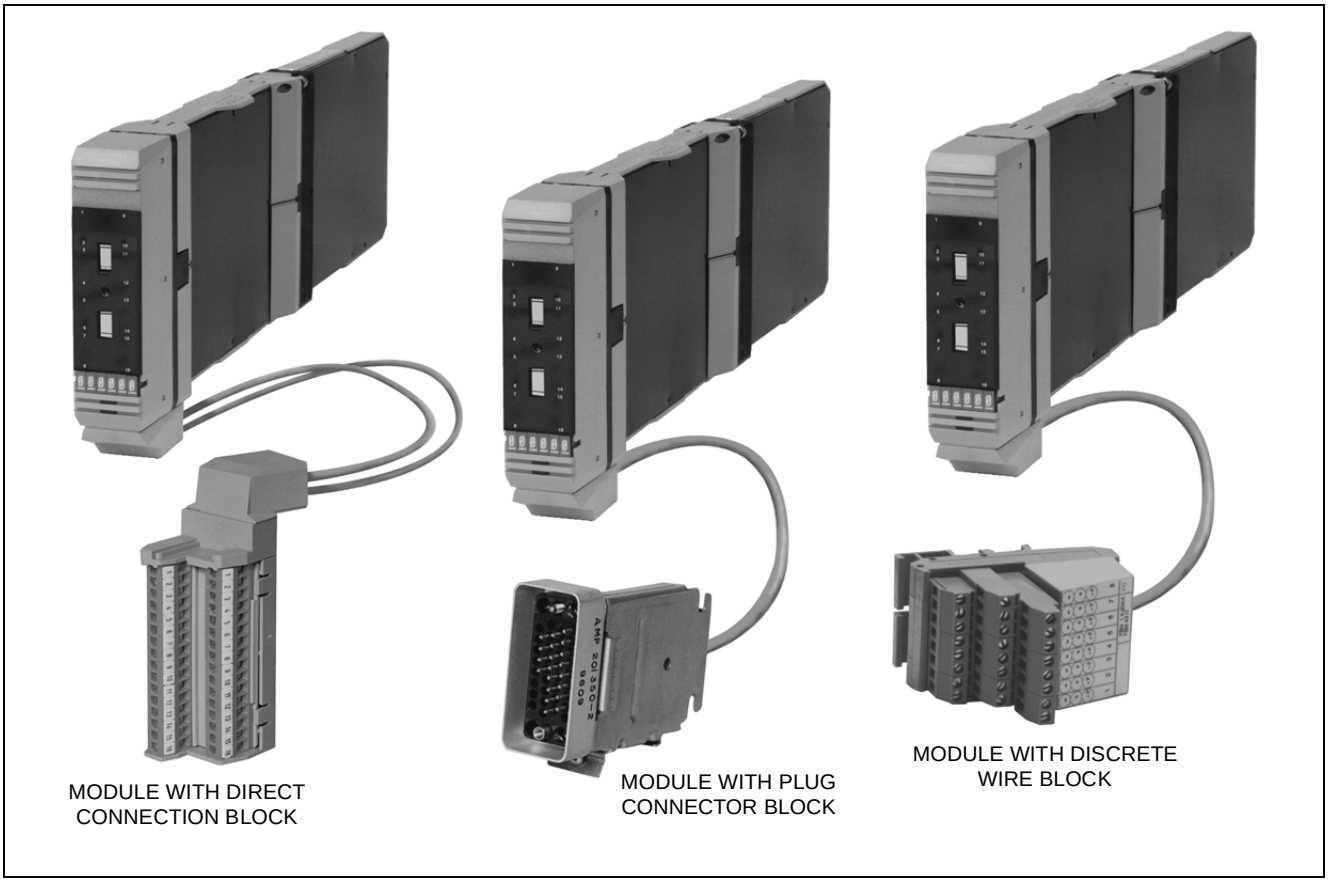
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FOXBORO®

PSS 21H-2B1 B4

I/A Series® Hardware
0 to 20 mA Input Interface Module (FBM01)



The 0 to 20 mA Input Interface contains eight 20 mA dc analog input channels. Each channel accepts a 2-wire, analog sensor input such as a 4 to 20 mA transmitter or a self-powered 20 mA source. The module performs the signal conversion required to interface the electrical input signals from the field sensors to the redundant Fieldbus. The module is a main type, and independently connects to the redundant Fieldbus.

Invensys
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Product Specifications

This module executes the analog Input application program. The configurable options for this program are Analog Input Resolution (on a per module basis), Fieldbus Switching Enable, and Fieldbus Switching Time.

FUNCTIONAL SPECIFICATIONS

Input
8 isolated and independent channels

Input Range (each channel)
0 to 20.4 mA dc

Accuracy
±0.05% of span

Communication
Via a redundant Fieldbus

Power Requirements
INPUT VOLTAGE RANGE (REDUNDANT)
26 to 42 V dc
CONSUMPTION
14 W (maximum)
HEAT DISSIPATION
12 W (maximum)

Input Connections
Two configurations (see Figure 1)

Conversion Time (software configurable)
See Table 1 (Input Specifications)

Isolation
The module will withstand, without damage, a potential of 600 V ac applied for one minute between any channel and earth (ground), or between a given channel and any other channel.

NOTE
This does not imply that these channels are intended for permanent connection to hazardous voltage circuits. Connection of these channels to voltages greater than 30 V ac or 60 V dc will violate electrical safety code requirements and may expose users to electric shock.

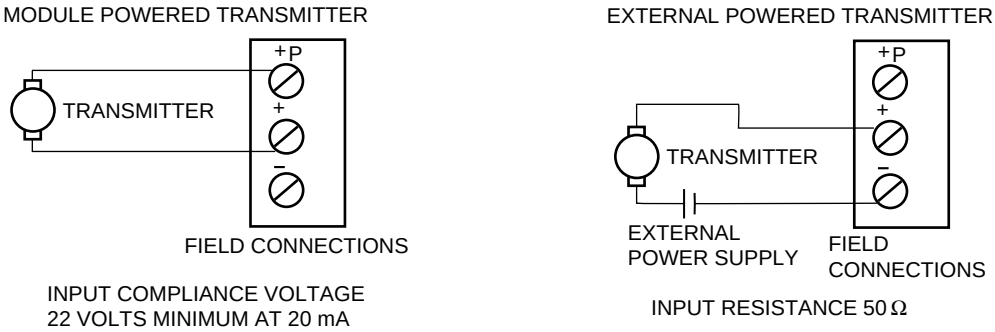


Figure 1. Input Connections

Table 1. Input Specifications

Conversion Time (Seconds)	Update Time (Milliseconds)	Settling Time(a) (Seconds)	Linearity Error(b) (% of Range)	Resolution (Bits)
0.1	10	0.25	0.0125	12
0.2	10	0.50	0.0075	13
0.5	25	1.00	0.005	14
1.0	50	2.00	0.005	15

(a) Value settles within a 1% band of steady state for a 10 to 90% input step change.
(b) Monotonic; assures that the signal for Fieldbus communications either increases or remains the same for increasing analog input signals.

ENVIRONMENTAL SPECIFICATIONS(a)

Operating
TEMPERATURE
0 to 60°C (32 to 140°F)
RELATIVE HUMIDITY
5 to 95% (Noncondensing)
ALTITUDE
-300 to +3,000 m (-1,000 to +10,000 ft)

Storage
TEMPERATURE
-40 to +70°C (-40 to +158°F)
RELATIVE HUMIDITY
5 to 95% (Noncondensing)
ALTITUDE
-300 to +12,000 m (-1,000 to +40,000 ft)

Contamination
Class G3 (Harsh) as defined in ISA Standard, S71.04

(a) The environmental limits of this module may be enhanced by the type of enclosure containing the module. {Refer to the applicable Product Specification Sheet (PSS) which describes the specific type of enclosure that is to be used.}

PHYSICAL SPECIFICATIONS

Mounting
WITH Y-ADAPTER
Installable in the 1X8 Mounting Structure, I/A Series Industrial Enclosures and Field Enclosure 8
WITHOUT Y-ADAPTER
Installable in I/A Series Field Enclosure 4 and the 1X8 FBM Mounting Structure

Mass
1 kg (2.2 lb)

Indicators (mounted on termination connector)
OPERATIONAL STATUS
Red and green light-emitting diodes (LEDs)

Field Termination Connections(a)
DISCRETE WIRE BLOCK
24 screw-clamp terminals
DIRECT CONNECTION BLOCK
24 screw-clamp terminals
PLUG CONNECTOR BLOCK
34-pin connector. Mates with:
- Burndy MSD 34 PM 118 (plug with bar-type cable clamp)
- Burndy MSD 34 PM 124 (plug with clam shell hood)
- Burndy MSD 34 PM 824 (plug with suitcase hood)
- or equivalent

(a) The discrete wire or plug connector block is available on termination cable assemblies for all enclosures excluding the Local Enclosures, Field Enclosure 4, and Multiple (Bridged) Industrial Enclosure 32. The direct connection block is available only on the termination cable assembly for the Local Enclosures and Field Enclosure 4. Multiple (Bridged) Industrial Enclosure 32's use the plug connector block only.

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