



Catalog #: 1762-IF20F2

Best Selling

## MicroLogix 4 Point Analog Comb Module

Lifecycle status: Active Mature

## Technical Specifications

### Electrical

Resolution of the analogue inputs	12 Bit
Input, current	Yes
Input, voltage	Yes
Input, resistor	No
Input, resistance thermometer	No
Input, thermocouple	No
Input signal, configurable	Yes
Output, current	Yes
Output, voltage	Yes
Output signal configurable	Yes
Analogue inputs configurable	Yes
Analogue outputs configurable	Yes
Type of electric connection	Screw connection
Fast transient burst	IEC1000-4-4: 2kV, 5 kHz
Conducted immunity	IEC 1000-4-6: 10V, 0.15...80 MHz
Radiated immunity	IEC1000-4-3: 10 V/m, 80...1,000 MHz, 80% amplitude modulation, +900 MHz keyed carrier
Suitable for safety functions	No

Surge immunity	IEC1000-4-5: 1kV galvanic gun
Module power LED	On: indicates power is applied

### Environmental

Operating temperature	-20 °C
ESD immunity	EN 61000-4-2, 4 kV contact, 8 kV air, 4 kV indirect
Operating altitude	2000 m
Storage temperature	-40 °C
Operating humidity	5...95% noncondensing

### Input Specifications

Common mode voltage range	-27 to 27V
A/D converter type	Successive approximation
Number of inputs	2 differential (unipolar)
Common mode rejection	>55 dB at 50 and 60 Hz
Input update time	Typical: 2.5 ms
Input impedance	Voltage Terminal: 200 KΩ
Current input protection	-32 mA
Voltage input protection	-30 V
Channel diagnostics	Over or under range or open circuit condition by bit reporting for analog inputs

### Output Specifications

Load range on voltage output	>1KΩ
Output update time	Typical: 4.5 ms
Number of outputs	2 single-ended (unipolar)
D/A converter type	Resistor string
Non-linearity	±0.12% (in percent full scale)
Typical overall accuracy	±1.17% full scale @ -20...65 °C (Only applicable to Series B I/O modules.), ±0.5% full scale @ 25 °C
Reactive load, voltage output	<1 μF
Reactive load, current output	<0.1 mH
Output protection	-32 mA
Open and short-circuit protection	Continuous

General Specifications	Resistive load on current output	0...500 $\Omega$ (includes wire resistance)
	Output ripple range	< $\pm$ 0.1% @ 0...500 Hz (referred to output range)
	Analog normal operating range	Voltage: 0...10V DC
	Bus current draw, max	40 mA @ 5V DC, 105 mA @ 24V DC
	Full scale analog ranges	Voltage: 0...10.5V DC
Construction	Repeatability	-0.12 to 0.12%
	Input and output group to system isolation	30V AC/30V DC rated working voltage (N.E.C. Class 2 required)(IEC Class 2 reinforced insulation) type test: 500V AC or 707V DC for 1 minute
Mechanical	Height	90 mm
	Width	40 mm
	Depth	87 mm
	Recommended cable	Belden 8761 (shielded), (For 1762-IT4, shielded thermocouple extension wire for the specific type of thermocouple you are using. Follow thermocouple manufacturer's recommendations.)
Common Specifications	Weight	Shipping: 240 g (0.53 lbs.) approximately (with cartoon)
	Vibration	Operating: 5 g @ 10...500 Hz, 0.030 in. max. peak-to-peak
	Shock	Operating: 30 g
Valid Input/Output Data Word Formats/Ranges for 1762-IF20F2	Hazardous environment class	Hazardous Location, Class I, Division 2 Groups A, B, C, D (UL 1604, C-UL under CSA C22.2 No. 213)
	Radiated and conducted emissions	EN50081-2: Class A
Valid Input/Output Data Word Formats/Ranges for 1762-IF20F2	RAW/Proportional data	32,760 @ 0...10V DC, 32,760 @ 4...20 mA, 31,200 @ 4...20 mA, 6240 @ 4...20 mA
	Scaled-for-PID	16,380 @ 0...10V DC, 16,380 @ 4...20 DC, 15,600 @ 4...20V DC, 3120 @ 4...20V DC
	Full Scale range	10.5V DC @ 0...10V DC, 21.0 mA @ 4...20 mA, 20.0 mA @ 4...20 mA, 4.0 mA @ 4...20 mA

# Documentation

For all available documentation, please see the [literature results](#).



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