

### DESCRIPTION

The Blancett Frequency-to-Current (F to I) and Frequency-to-Voltage (F to V) intelligent converters are state-of-the-art active sensors designed to provide enhanced features and greater flexibility for the Blancett turbine.

These microprocessor-based devices are engineered to provide an analog output directly from a Blancett turbine flow meter. The converters measure and calculate the flow rate of a turbine flow meter and produce an analog output proportional to the flow rate. The F to I and F to V converters are offered with either a 4...20 mA or a 0...5V DC output signal, enabling easy electronic integration. Choose between the capped aluminum conduit Y-enclosure (model B220-873 or B220-874) or the canister style (model B220-950 or B220-951) converters.

When a converter is ordered with a flow meter, the two components ship from the factory calibrated as a system. If the converter is a replacement, the turbine's K-Factor has changed, or the converter is being used with a different manufacturer's flow meter, then re-programming is possible with an optional Windows®-based software utility. Please consult the factory for details.

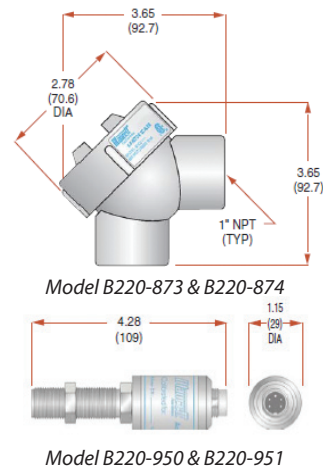
### FEATURES

- Converts turbine pulse output into linearized analog output
- Choice of 4...20 mA or 0...5V DC output
- Accuracy of frequency measurement is  $\pm 0.1\%$
- Enables integration with data acquisition devices
- Two mounting styles available for ease of installation



### DIMENSIONS

Dimensions are in inches (mm).



### SPECIFICATIONS

SPECIFICATIONS		F to I Models B220-873 & B220-950	F to V Models B220-874 & B220-951
<b>Power</b>		10...30 VDC supply range Loop-powered, 6V insertion loss max	10...26V DC supply range
<b>Inputs</b>	Source	Magnetic Pickup	Magnetic Pickup
	Frequency	0...3500 Hz	0...3500 Hz
	Trigger Sensitivity	30 mV p-p	30 mV p-p
	Frequency Measurement Accuracy	$\pm 0.1\%$	$\pm 0.1\%$
<b>Analog Output</b>	Type	4...20 mA current loop	0...5V DC
	Resolution	1 : 4000	1 : 4000
	Temperature Drift	50 ppm/°C (max)	50 ppm/°C (max)
<b>Environmental</b>	Ambient Temperature	-22...158 °F (-30...70 °C)	-22...158 °F (-30...70 °C)
	Humidity	0...90%, non-condensing	0...90%, non-condensing
	Altitude	2000 m	2000 m
	Use	Indoor/outdoor	Indoor/outdoor
<b>Enclosure</b>		Kilark aluminum capped elbow Y-3. Class I, Div. 1 & 2, Groups C & D; Class II, Div. 1 & 2, Groups E, F and G; Class III	
	Ordinary locations	CAN/CSA-C22.2 No. 61010-1-12, UL Std. No. 61010-4 (3rd Edition)	
<b>Agency Listings</b>	Pollution Degree 2		
	Overvoltage Category I		

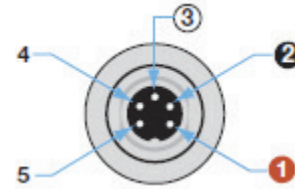
## MODELS

Model	Intelligent Converter	Output
B220-873	F to I	4...20 mA
B220-874	F to V	0...5V DC
B220-950	F to I	4...20 mA
B220-951	F to V	0...5V DC

## Connecting Cables

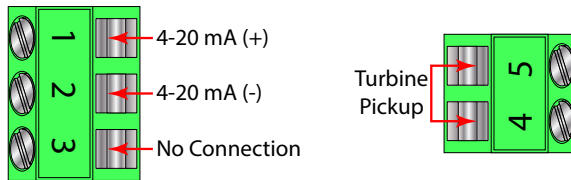
Model	Length	Description
B220952-6	6 ft	5-pin cable assembly
B220952-15	15 ft	5-pin cable assembly

## Male Connector

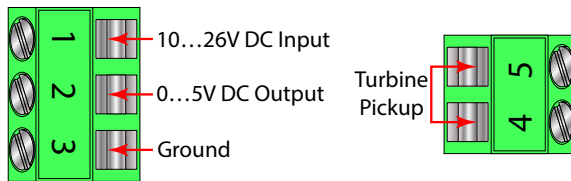


## WIRING DIAGRAMS

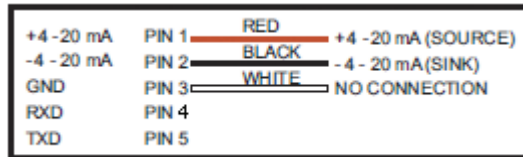
### F to I Converter, B220-873



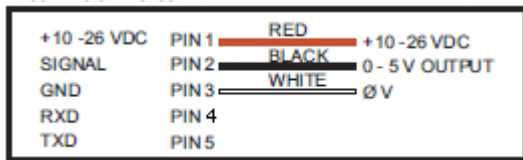
### F to V Converter, B220-874



### F to I Converter, B220-950



### F to V Converter, B220-951



## Control. Manage. Optimize.

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