

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.

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.

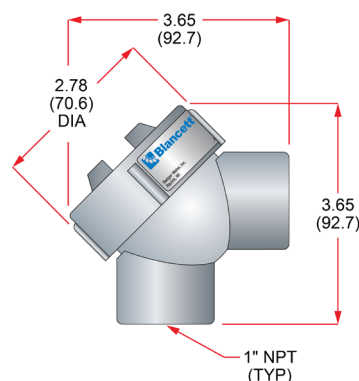
FEATURES

- 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
- Capped aluminum conduit enclosure



DIMENSIONS

Dimensions are in inches (mm).



Model B220-873 & B220-874

SPECIFICATIONS

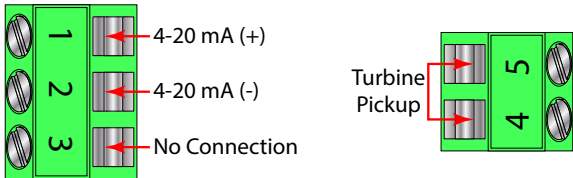
		F to I Model B220-873	F to V Model B220-874
Power		10...30 VDC supply range Loop-powered, 6V insertion loss max	10...26V DC supply range
Inputs	Source	Magnetic Pickup	Magnetic Pickup
	Frequency	0...3500 Hz	0...3500 Hz
	Trigger Sensitivity	30 mV p-p	30 mV p-p
	Frequency Measurement Accuracy	$\pm 0.1\%$	$\pm 0.1\%$
Analog Output	Type	4...20 mA current loop	0...5V DC
	Resolution	1 : 4000	1 : 4000
	Temperature Drift	50 ppm/°C (max)	50 ppm/°C (max)
Environmental	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
Enclosure		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	
Agency Listings	Ordinary locations	CAN/CSA-C22.2 No. 61010-1-12, UL Std. No. 61010-4 (3rd Edition)	
	Pollution Degree 2		
	Overvoltage Category I		

MODELS

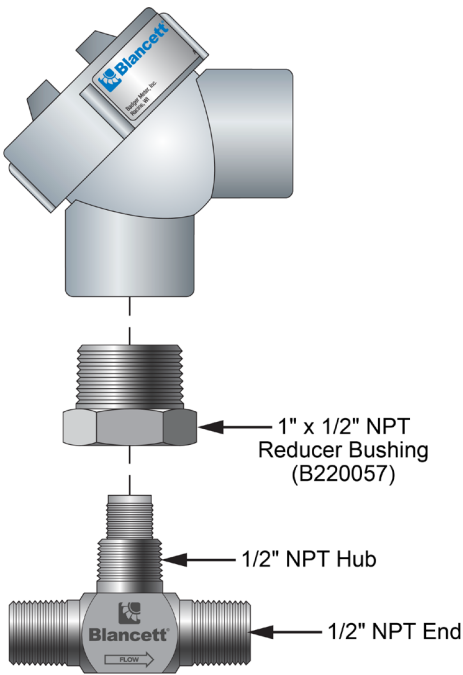
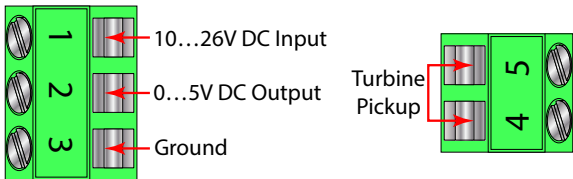
Model	Intelligent Converter	Output
B220-873	F to I	4...20 mA
B220-874	F to V	0...5V DC

WIRING DIAGRAMS

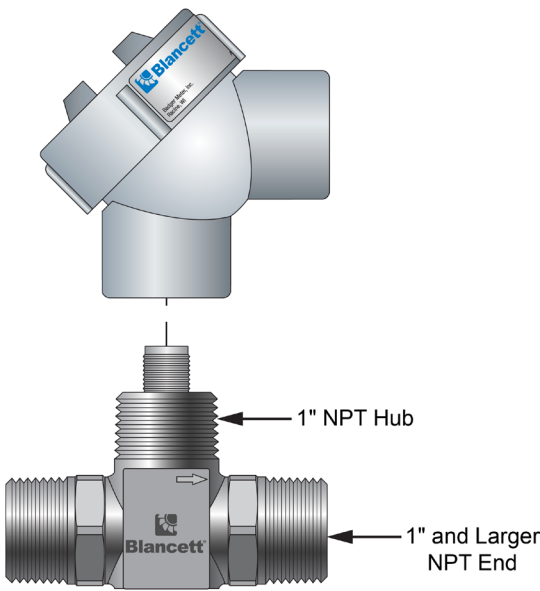
F to I Converter, B220-873



F to V Converter, B220-874



Turbine with 1/2" NPT hub size



Turbine with 1" NPT hub size

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