

PT420 Frequency Converter

FREQUENCY CONVERTER



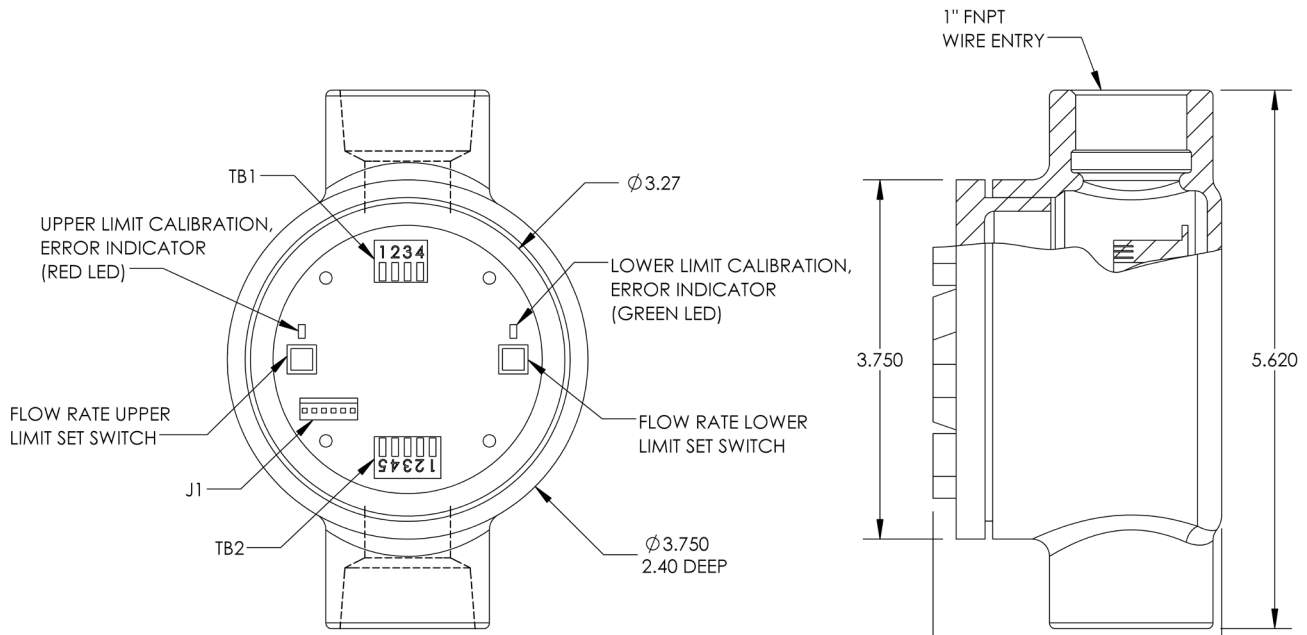
Turbines, Inc. is the leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All products are engineered, manufactured, and calibrated using premium quality materials by skilled tradesman with state-of-the-art equipment.

Turbines, Inc. maintains a team of dedicated engineers, technicians, and application specialists, who are on-call to assist with product/application guidance, technical assistance, and special configurations or modifications.

The **PT420 Frequency Converter** is a microcontroller based rate/totalizer designed for both, Liquid and Gas Applications. The unit has PC programming and monitoring capability through a RS-232/USB type data link and it also offers the option to set the minimum and maximum flow rate thresholds through two on board pairs of switches and LED indicators. The two selectable PT420 inputs accept sine and square wave signals generated by passive and, respectively, active magnetic pickup coil probes. Computations include calculation of liquid flowrate in Pulses per Second based on the turbine pulse rate and in Gallons per Minute based on the predetermined turbine k-factor.

PT420 Features

Temperature	Operating -40° C to +65° C Storage -40° C to +85° C
Input Voltage	Loop Power: 6.5 to 30 VDC DC Power: 5.5 to 30 VDC
Signal Input	Frequency: 1Hz-10kHz Impedance: 10k ohms Sensitivity(Sine): 50mV-24Vpp Sensitivity(Square): 3.6-24V (50% duty cycle)
Outputs	Factored Pulse Input frequency range: 1Hz to 10KHz Pulse Output Divider: 0.01, 0.1, 1, 10, 100, 1000, & custom Factored Rate Input frequency range: 5Hz to 6KHz Current Range: 4 to 20 mA Factor Rate Voltage Input frequency range: 5Hz to 6KHz Voltage range: 0 to 5V or 0 to 10V DC Output Voltage Max DC Output Voltage: 35V Operational DC Output Voltage: 4.5V to 29V
Features	EEPROM parameter storage Programming and monitoring via a PC displayed Hyperlink Terminal Window Field programmable Minimum and Maximum flowrate via two on board switches Secondary storage location for parameters and linearizer table



TERMINAL CONNECTIONS

J1- RS232 CONNECTOR	TB1- INPUT CONNECTOR	TB2- OUTPUT CONNECTOR
1. GND	1. SINE +/PULSE +	1. LOOP +/- Vcc INPUT
2. RS232 CTS	2. SINE -	2. LOOP -
3. +5V RS232	3. + Vcc OUT	3. VOUT
4. RS232 TXD	4. GROUND/SHIELD	4. POUT
5. RS232 RXD		5. GND/SHIELD
6. RS232 RTS		

 All Turbines, Inc. products are proudly made in the U.S.A.



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