

# Model HB2800 Flow Monitors

## For Model 1100 Turbine Meters

### Features

- Displays rate and/or total
- Large 8 digit, 3/4" display for easy viewing
- Battery-powered unit utilizes one "D" size 1.5 volt alkaline battery for approximately 3-1/2 years service
- Loop-powered, 4-20 mA version available
- User-friendly front panel programming
- Ten point linearization (advanced model only)
- NEMA 4 enclosure suitable for outdoor monitoring (meter, remote and swivel mount)
- Intrinsically safe (meter, remote and swivel mount)
- Microprocessor-based, low power consumption
- Five mounting options: meter, remote, swivel, panel or explosion-proof
- Standard model displays in four selectable units of measure
- Advanced model offers eleven selectable units of measure
- Advanced model allows selection of time intervals for rate measurement



The HB2800 is a technologically advanced flow monitor designed to be comprehensive, user-friendly, flexible and cost efficient. This microprocessor-based display comes pre-calibrated by the factory when purchased with a Model 1100 turbine flow meter, or it can easily be configured in the field. There are two versions available - the standard model which is programmed in seven simple steps and the advanced model which provides additional programming options.

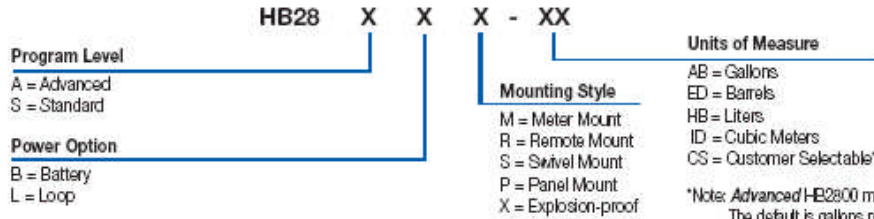
### Specifications

<b>Display:</b>	Rate and total, fixed or toggle mode of operation 8 digit, 3/4" numeric (top line) 8 character, 3/8" alphanumeric (bottom line)
<b>Panel Mount &amp; Explosion-proof Models</b>	8 digit, 1/2" numeric (top line) 8 character, 1/4" alphanumeric (bottom line)
<b>Power:</b>	
Battery	1 "D" size 1.5 VDC alkaline battery
Loop-powered	4-20 mA, two-wire current loop, 11-30 VDC
<b>Power Consumption:</b>	
Battery	Less than 1 milliwatt (~3.5 years on 1 "D" battery)
Loop-powered	25 mA maximum
<b>Pulse Output Signal:</b>	One pulse for each increment of the least significant digit of totalizer Opto-isolated open collector transistor
Pulse Type	30 VDC
Max Voltage	(ON State) 20 ms/max pulse rate 25 Hz
Pulse Width	(ON State) 0.9 V drop @ 5.0 mA or 0.7 V drop @ 0.1 mA
Current	
<b>Inputs:</b>	Magnetic pick-up
Frequency Range	1 to 3500 Hz
Trigger Sensitivity	30 mV peak-to-peak
Over Voltage Protected	±30 VDC
<b>Frequency Measurement Accuracy:</b>	±0.1%
<b>Analog Output:</b> (Loop-powered Version)	4-20 mA
<b>Operating Temperature:</b>	-22 °F to +158 °F (-30 °C to +70 °C)
<b>Humidity:</b>	0-90% non-condensing
<b>Enclosure Rating:</b>	NEMA/UL/CSA Type 4X (IP66)
<b>Units of Measure:</b>	
Standard Version	GPM/gallons, LPM/lters, M3PD/cubic meters, BPD/barrels
Advanced Version	Gallons, oil barrels, liters, cubic meters, Mgal, cubic ft, Mlters, acre ft, liquid barrels, lbs, kgs
<b>Time Intervals:</b>	Day, hour, minute, second
<b>Certifications:</b>	
CSA Intrinsically Safe	Class I, Division 1, Groups C & D Class II, Division 1, Groups E, F & G
CE	IEC 61326-1
CSA Hazardous Locations (Explosion-proof Model only)	Class I, Division 1, Groups B, C & D Class II, Groups E, F & G Class III, Type 4, T6 @ 70 °C

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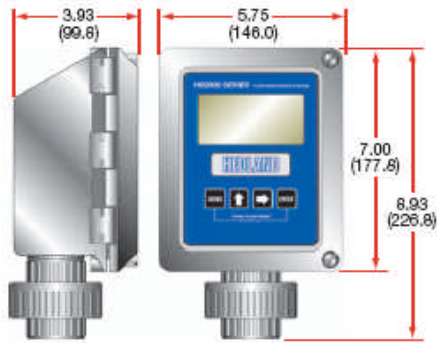
## For Model 1100 Turbine Meters

### Ordering Information

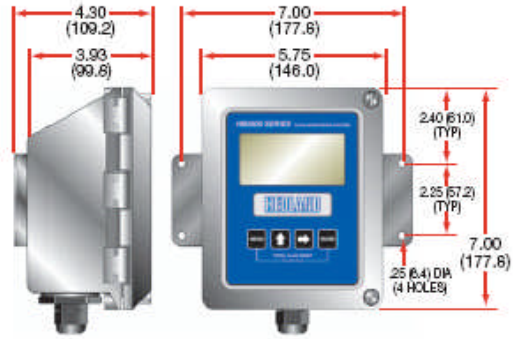


\*Note: Advanced HB2800 monitors only.  
The default is gallons per minute.

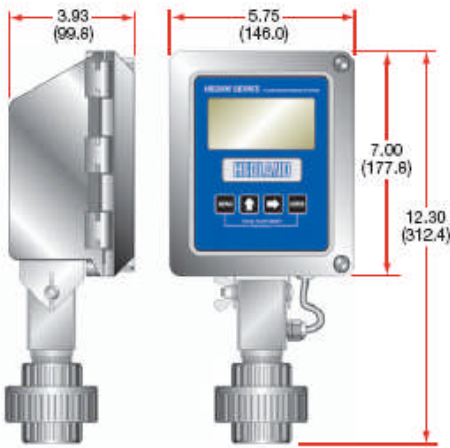
### Dimensions - Inches (mm)



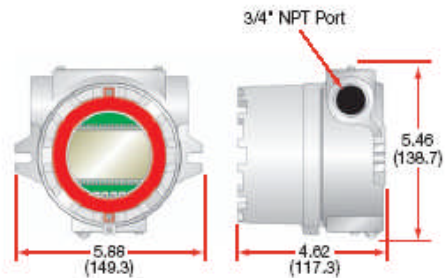
METER MOUNT



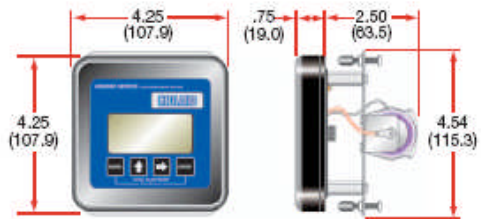
REMOTE MOUNT



SWIVEL MOUNT



EXPLOSION-PROOF



Panel cut-out - 1/4 DIN 3.62 (92) x 3.62 (92)

PANEL MOUNT