

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

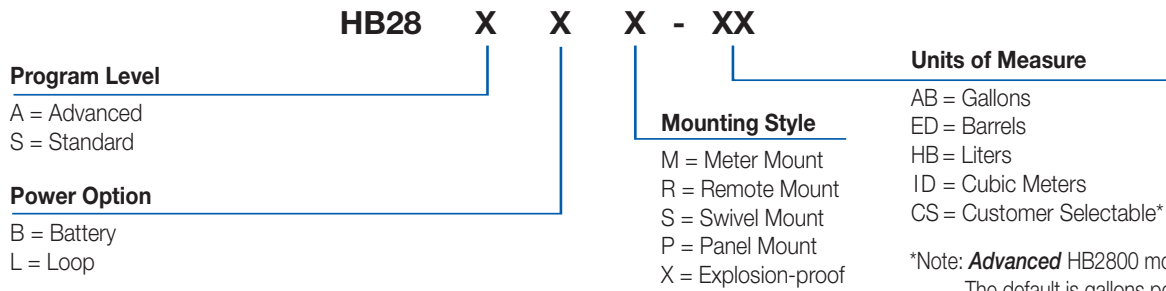
Display:	Rate and total, fixed or toggle mode of operation 8 digit, 3/4" numeric (top line) 8 character, 3/8" alphanumeric (bottom line)
Panel Mount & Explosion-proof Models	8 digit, 1/2" numeric (top line) 8 character, 1/4" alphanumeric (bottom line)
Power:	
Battery	1 "D" size 1.5 VDC alkaline battery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



Model HB2800 Flow Monitors

For Model 1100 Turbine Meters

Ordering Information



Dimensions - Inches (mm)

