

The BTU Meter measures flowrate, Delta T, and calculates energy usage.

Non-shaded Components = BTU Meter

Shaded Components = System Components

GRISWOLD EPIC CONTROLLER SPECIFICATIONS

Supply Voltage: 24V AC/DC
Housing Insulation: IP 54 including upside down mounting
Housing Material: UL94 V0-rated plastic

TEMPERATURE SENSOR SPECIFICATIONS

Supply Voltage: 24V DC
Media Temperature: 32° to 212°F
Connection: 1/4" NPT
Housing Material: UL94 V0-rated plastic
Signal Output: 0-5 V (3-wire)
Electrical Connection: Directly Outlet Cable IP67
Probe Length: 50 mm

TRANSDUCER SPECIFICATIONS

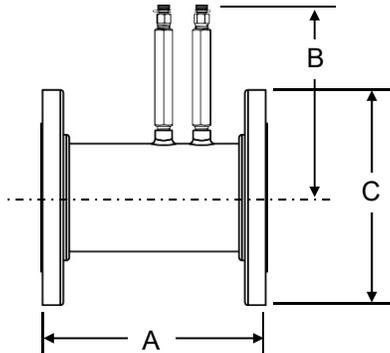
Accuracy RSS: ±0.5% FS
Non-Linearity, BFSL ±0.20% FS
Hysteresis 0.5% FS
Non-Repeatability ±0.05% FS
Connection: 1/4" NPT
Thermal Effects °F (°C) Compensated 14 to 140 (-10 to 60)
Zero Shift %FS/°F(%FS/°C) < ±0.02 (<±0.04)
Span Shift %FS/°F(%FS/°C) < ±0.02 (<±0.04)
Line Pressure Effect Zero shift approx. ±0.004% FS/psig line pressure
Resolution Infinite, limited only by output noise level (0.02% FS)
Static Acceleration Effect 2% FS/g (most sensitive axis)
Natural Frequency > 500 Hz (gaseous media)
Response Time 30 to 50 milliseconds
Maximum Working Pres: 250 psig
Circuit: 2-wire
Output at Zero Pressure: 4mA (1V with filter)
Output at Full Range: 20mA (5V with filter)
Pressure¹: 0-14.5psid (0-401.8WC)

NOTES

¹ Calibrated at factory at 24Vdc.

Full Scale Output: 16mA (4V with filter)
External Load: 0 to 1000 Ω
Minimum Supply Voltage: 12vDC + 0.02 x (Resistance of receiver plus line)
Maximum Supply Voltage: 30vDC + 0.004 x (Resistance of receiver plus line)

VENTURI METERING STATION SPECIFICATIONS



PSI/Temperature Rating: 240 PSI/250° F
Low Loss Venturi: Carbon Steel with Piezo-Ring to average low signal pickup.
Body Material: Carbon Steel SA-53 Grade B.
End Connections: Steel flanges ANSI B16.5-RF Class 150
Installation: No straight-run is necessary for normal operation.

DIMENSIONS & WEIGHTS FOR METERING STATION (NOMINAL)

LINE SIZE	A	B	C	WEIGHT (LBS.)
2-1/2"	6.3	7.3	7.0	17.9
3"	6.8	7.6	7.5	21.9
4"	8.4	8.0	9.0	31.5
5"	10.3	8.6	10.0	40.0
6"	10.8	9.1	11.0	51.7
8"	12.8	10.1	13.5	86.5
10"	16.0	11.2	16.0	130.6
12"	16.8	12.2	19.0	191.1
14"	17.0	12.8	21.0	244.7
16"	18.0	13.8	23.5	300.1
18"	17.3	14.8	25.0	326.5
20"	20.9	14.2	27.5	TBD

All dimensions are for planning purpose only, contact factory for actual measurement at time of order.

MODEL NUMBER SELECTION

B
T
U
0

Select a Size: M=2.5", N=3", P=4",
 Q=5" R=6", S=8", T=10", U=12",
 V=14", W=16", X=18", Y=20"

Tag: 0=Standard, T=Hanging Tag

FLOW RATES

LINE SIZE	MODEL NO.	Cv ²	GPM RANGE FOR 5"-100" ³ W.C. ΔP (SET W/100" GAUGE)	GPM RANGE FOR 5"-300" W.C. ΔP (SET W/300" GAUGE)
2-1/2"	BTUM	171	19 – 87	19 – 151
3"	BTUN	269	32 - 147	32 – 255
4"	BTUP	580	58 – 260	58 – 451
5"	BTUQ	800	80 – 372	80 – 645
6"	BTUR	1250	140 – 624	140 – 1075
8"	BTUS	2100	260 – 1180	260 – 2045
10"	BTUT	4000	375 – 1610	375 – 2790
12"	BTUU	5700	600 – 2790	600 – 4820
14"	BTUV	7300	775 – 3420	775 – 5940
16"	BTUW	9600	1250 – 5525	1250 – 9575
18"	BTUX	14500	1650 – 7405	1650 – 12830
20"	BTUY	26400	2246 – 10071	22460 - 17448

NOTES

² Cv's are used to calculate permanent pressure drop. $PSID=(Flow/Cv)^2$. Consult chart F-4439 for flow measurement.

³ Not all gages/meters can accurately show a 5" signal. Readability is dependent on quality of the meter. Digital gages can read below 1".