

Model 38M Barometric Pressure Transmitter



MODEL 38M BAROMETRIC PRESSURE TRANSMITTER

4-20 MA, HIGH ACCURACY, 850 TO 1080 MBAR ABSOLUTE

Viatran's Model 38M pressure sensor is among our most accurate pressure transmitters for industrial test and research applications. The 38M measures barometric pressure from 850 to 1080 mBarA with Improved Accuracy (Non Linearity) of $\leq \pm 0.06\%$ FSO available.

PERFORMANCE

850 to 1080 mBar Absolute (Optional ranges can be factory set from 0 to 1080 mBarA with a minimum 240 mBarA span)
≤±0.21% FSO (Includes BFSL, Hysteresis and Repeatability by RSS)
$\leq \pm 0.1\%$ FSO ($\leq \pm 0.06\%$ FSO with DN option)
≤±0.18% FSO each
16 mA at 21°C (70°F) ≤±0.5% FSO standard
Infinite
≤±0.9% FSO per 6 months
\$\le 1.0.9\% FSO per 6 months 0° to 77° C (32°F to 170°F)
0° to 77° C (32°F to 170°F)
0° to 77° C (32°F to 170°F) -40°C to 121°C (-40°F to 250°F)
0° to 77° C (32°F to 170°F) -40°C to 121°C (-40°F to 250°F) -40°C to 85°C (-40°F to 185°F)

ELECTRICAL

Supply Voltage	8 to 30 Vdc
Power Supply Regulation	≤±0.01% FSO per volt change over the supply voltage range
Output Signal	4 - 20 mA
Load Resistance	1050 Ohms max at 30 Vdc
Calibration Signal (isolated)	100%±10% of FSPR
Calibration Signal Accuracy	≤±0.1% of the stated value (marked on unit housing)
Circuit Protection	Input polarity may be reversed. Output may be short-circuited indefinitely Over voltage protection to 1000 volts according to EN61000-4-5
Insulation Resistance	<5 nS to case ground
Response Time	<2 mSec to reach 90% of full scale
RFI / EMI Suppression	CE EMC compliant per IEC EN 61326-1 & 61326-2-3 Annex BB, CE marked
Electrical Connection	Bendix / Amphenol PT02E-10-6P, mates PT06E-10-6S (SR)
Pin Outs	Pin A + Power / Signal Pin B - Power / Signal Pin C Calibrate Pin D Calibrate Pin E No Connection Pin F No Connection Shell Ground

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Low

- High Accuracy

Many Options available

All Stainless Steel construction

Low Pressure Applications

MATERIALS OF CONSTRUCTION

Wetted Parts	316 stainless steel
Housing	304 SS with an Aluminum alloy, black zinc-cobalt plated electrical connector
Weight	283 g (10 oz)
MECHANICAL	
Pressure Connection	G-1/4 female
Proof Pressure	3100 mBar (45 PSI)
Burst Pressure	5170 mBar (75 PSI)
Pressure Cavity Volume	1.5 mL
Mounting	May be supported by process piping
Identification	Laser etched onto body

OPTIONS

BF	(K)PTIH-10-6P
BG	DIN 43650
BL	WK6-32S
BN	(K)PTIH-8-4P
BQ	(K)PT02H-10-6P
BR	CF3102E-14S-6P
ZU	Direct Cable - 79°C (175°F) max temperature
Y()	Multiple pressure ports available. Consult factory
DC	Extended temperature operation: -40°C to 77°C (-40°F to 170°F)
DG	Improved temperature compensation: ± 0.5% FSO per 55.6°C (100°F) zero and span shift
DH	Special ranging
DK	Special shunt calibration setting
DM	Modified full scale output
DN	Improved Accuracy (Non Linearity) ≤ ±0.06% FSO
DQ	Cleaning for oxygen service
EA	Special calibration run
NH	Customer specified identification
PW	Scaled with Process Meter
Note:	Application of some available options may affect standard performance. Consult your Viatran representative for details.
VU	1/8" Barbed (Male) Port

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