



Rolling Mill Applications: Model RM570 Pressure Transmitter



MODEL RM570 PRESSURE TRANSMITTER 4-20 mA, 0-100 Bar thru 0-350 Bar for Rolling Mills

Harsh industrial environments found in the metals industry demand a rugged pressure transmitter that can withstand heat, vibration, pressure spikes and EMI/RFI caused by the surrounding equipment. Viatran's Rolling Mill units are built and configured to order with a choice of four pressure ranges, ensuring you have the best solution.



PERFORMANCE

Full Scale Pressure Ranges (FSPR)	0-100 Bar (0-1450 psi) 0-150 Bar (0-2175 psi) 0-250 Bar (0-3625 psi) 0-350 Bar (0-5076 psi)
Static Error Band	≤±0.25% FSO typical (Includes BFSL, Hysteresis and Repeatability by RSS)
Full Scale Output (FSO)	4-20 mA (16 mA FSO)
Zero and Span Balance	±1% FSO
Response Time	< 2 mSec to reach 90% FSO
Temperature Effect on Zero	≤±1% FSO per 100° F (55.5° C)
Temperature Effect on Span	≤±1% FSO per 100° F (55.5° C)
Compensated Temperature	70° F to 170° F (21° C to 76° C)
Operating Temperature	-40° F to 185° F (-40° C to 85° C)
Storage Temperature Limit	-65° F to 185° F (-53° C to 85° C)

ELECTRICAL

Supply Voltage	12 to 30 Vdc
Power Supply Regulation Effect	≤±0.02% FSO per Volt
Output Signal	4 - 20 mA
Bridge Impedance	5000 Ohms nominal
Circuit Protection	Varistor protected across the input leads for surges above 40V and currents to 250 Amps peak with a pulse width of 8x20 μSecs. Reverse polarity protected.
Insulation Resistance	> 200 MegOhms to case ground
Electrical Connection	
BH (standard)	6-pin hermetic, bayonet-style, 303 SST weld mount connector
Pin Outs (standard)-Consult Engineering for alternative configurations	
Pin A	+Power/Signal
Pin B	No Connection
Pin C	-Power/Signal
Pin D	No Connection
Pin E	No Connection
Pin F	No Connection
ZU (optional) Direct Coupled Cable	Custom wiring per your application

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All welded construction and stainless steel surfaces makes the RM570 transmitter ideal for harsh environments.



MANY OPTIONS AVAILABLE



ALL STAINLESS STEEL
CONSTRUCTION



HIGH OVERPRESSURE
APPLICATIONS



IP-68 RATED

All Model RM570 Transmitters are configured to meet your specific needs, please consult a Viatran Applications Engineer for assistance.



MECHANICAL

Pressure Connections	G1/2A BSP(M) with Bleed Port* G1/2A BSP(M) without Bleed Port G1/4B BSP(M) without Bleed Port
Proof Pressure	Up to 4 times FSPR (1,378 Bar* (20,000 psi), whichever is less)
Burst Pressure	≥ 6 to 10 times FSPR, dependent on sensor, consult engineering for details.
Mounting	Supported by process piping or optional mounting bracket

MATERIALS OF CONSTRUCTION

Enclosure	15-5 PH and 316 stainless steel
Wetted Parts	15-5 PH stainless steel
Shock Limitation	100 G's
Weight	17 oz. (0.482 kilograms) typical
Identification	Laser etched onto body
Enclosure	Classification IP68

OPTIONS

B()	Alternate Electrical Connections* *
DF	Bleed Port*
EA	Special Calibration
NH	Customer specified identification
NJ	CE Marking
Y()	Alternate pressure ports
ZU	Direct coupled cable*

Notes:

* For safety purposes, Viatran will only proof pressure in production to 700 Bar (10,000 psi) for units with Bleed Ports.

** Custom wiring / pin outs available for your application.

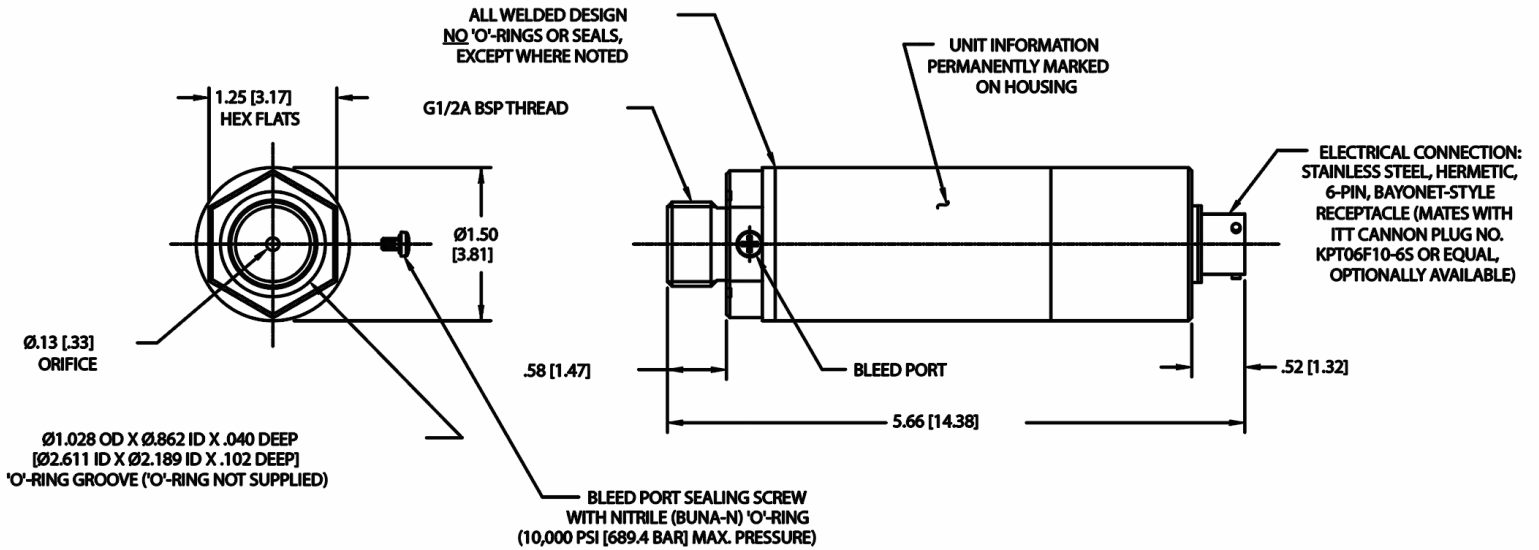
Application of some available options may affect standard performance. Consult your Viatran Representative for details.

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DIMENSIONAL DATA

NOTE:

1. ALL DIMENSIONS ARE NOMINAL, IN INCHES [cm]
AND FOR REFERENCE PURPOSES ONLY



ACCESSORIES



Ruggedized Connector
and Cable Assemblies



Process Panel Meters



Replacement "O" Ring