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 (55.6°C)

Temperature Effect on Span  
≤ ±1% FSO per 100°F (55.6°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 40 V 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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199 Fire Tower Drive, Tonawanda, New York 14150 USA  Phone: 716.629.3800  Toll Free: 800.688.0030  Fax: 716.693.9162  Email: solutions@viatran.com
Model RM570
Pressure Transmitter

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

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

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