



Model RM570 Pressure Transmitter



MODEL RM570 PRESSURE TRANSMITTER

4-20 MA, 0-100 BAR THRU
0-350 BAR

RM 570 transmitters provide a rugged, sealed solution for the harsh industrial environments found in Rolling Mills and the metals industry.

PERFORMANCE

Full Scale Pressure Range (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	$\leq \pm 0.25\%$ FSO typical (Includes BFSL, Hysteresis and Repeatability by RSS)
Full Scale Output (FSO)	4-20 mA (16 mA FSO)
Zero and Span Balance	$\pm 1\%$ FSO
Response Time	<2 mSec to reach 90% FSO
Temperature Effect on Zero	$\leq \pm 1\%$ FSO per 100°F (55.5°C)
Temperature Effect on Span	$\leq \pm 1\%$ 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	$\leq \pm 0.02\%$ 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 μ Secs. 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

Model RM570

Pressure Transmitter



Many Options available



All Stainless Steel construction



High Overpressure Applications



IP-68 Rated



All welded construction and stainless steel surfaces makes the RM570 ideal for harsh environments. Viatran's rugged pressure transmitters are designed to withstand heat, vibration, pressure spikes and EMI/RFI caused by the the surrounding equipment.

All Viatran Rolling Mill units are built and configured to order with a choice of four pressure ranges, ensuring you have the best solution for your application.

MECHANICAL

Pressure Connections	G 1/2A BSP(M) with Bleed Port* G 1/2A BSP(M) without Bleed Port G 1/4B BSP(M) without Bleed Port
Proof Pressure	Up to 4 times FS PR (1378 Bar* (20,000 psi), whichever is less)
Burst Pressure	≥ 6 to 10 times FS PR 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 (10K PSI and below)
EA	Special calibration run
NH	Customer specified identification
NJ	CE Marking
Y ()	Alternate pressure ports
ZU	Direct Coupled Cable**

Note:

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

* 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.

Model RM570

Pressure Transmitter



Model 570 EMC

Declaration of
Conformity

Model RM570

Pressure Transmitter

NOTE:

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

