



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 | ≤±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 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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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 FSPR (1378 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 (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.

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 Model 570 EMC
Declaration of
Conformity

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NOTE:

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

