



Model 571



COMPACT AND COMPLETELY SEALED

The 571 is designed to withstand harsh atmospheres. All welded construction combined with 316 stainless steel makes the 571 airtight, watertight, and ideal for corrosive environments. An O-Ring free design ensures reliability.



FEATURES

- Hermetically sealed external controls
- Built-in field calibration signal
- All welded, watertight construction
- FM, CSA, CRN, ATEX, EACEx (Optional)
- 4-20 mA

TYPICAL APPLICATIONS

- Offshore oil rigs
- Shipboard/Marine
- Pulp and paper
- Chemical processing
- Water treatment

GAGE, ABSOLUTE, ACCURATE.



APPROVAL OPTIONS

Model 571 qualifies for FM, CSA, CRN, ATEX and EACEx ratings. External zero, span, and calibration controls are hermetically sealed, yet easily adjusted by means of Viatran's unique magnetically coupled adjustments. The signal conditioner in the 571 allows for 5:1 ranging of the transmitter's standard pressure range.

IN-FIELD SETUP AND RANGING

A calibration circuit permits ranging and setup without a calibrated pressure source. When the cal switch is activated, an electronic signal is sent through the unit, simulating the level or pressure. The optional non-interactive zero and span circuit allows taring of the zero without effecting the span.

JUST ONE PART OF A COMPLETE LINE OF SOLUTIONS FROM VIATRAN

The 571 represents one transmitter in a family of sensors designed for the process control industry. Viatran's vision is to be your fastest, easiest and most trusted solution.

Call us today to explore the solutions we have to offer.

1.800.688.0030

Your local applications specialist:













Model 571

PERFORMANCE Acquirect (PSS)	Full Scale Pressure Range (FSPR)	0-50 thru 0-100K PSIA/PSIS
Accuracy (RSS) (BFSL Non-Linearity, Hysteresis, Non-Repeatabilit		±0.20% FSO (±0.15% FSO improved with "DN" option) ±0.25% FSO (±0.15% FSO improved with "DN" option)
Non-Linearity (Best Fit Straight Line		
Non-Emounty (Boot in Ording in Emo)	< 0-300 PSI or > 0-15K PSI Ranges	7. 31
	Hysteresis	, , , , , , , , , , , , , , , , , , , ,
	Non-Repeatability	• •
	Full Scale Output (FSO)	•
	Resolution	
	Long-term Stability	
Response Time		
nesponse fillie	Temperature Effect on Zero	
	Temperature Effect on Span	
		combined at 5:1 Range Down≤±4.0% FSO per 100°F
	Compensated Temperature Range	
	Maximum Operating Temperature	
	Minimum Operating Temperature	10°F
	Non-operating Temperature Range	65°F to 250°F
ELECTRICAL	Supply Voltage	12 to 30 VDC
	Power Supply Regulation	
	Output Signal	
	Load Impedance	
Zero Adjustmen		
	Suppression	
		Rangeable down 5:1 from standard range
		20% of FSPR externally switched±1.0% FSO. The exact signal to pressure correlation is provided with each unit.
		Varistor protected across the input leads for surges above 40V and currents to 25
		peak with a pulse width of 20 µSec. Reverse polarity protected.
	Bridge Resistance	
	Insulation Resistance	
		Negligible to 500 MHz at 5 Watts direct contact
	Electrical Connection	
	Red	
	Black	
	Green	Case Ground
MECHANICAI Praecura Connection	50 thru 15K PSI	1//" NPT famale
MECHANICAL Pressure Connections	20K thru 50K PSI	
	201 till 301(1 olimination)	
	60K thru 100K PSI	
Proof Pressure		1.5 times FSPR or 20K PSI, whichever is less
	20K thru 0-100K PSI	
Burst Pressure		
	5K PSI	
	7.5K thru 10K PSI	
	15K PSI	
	Shock Limitation	1.5 times FSPR or 125K PSI, whichever is less
	Weight	
Enclosure Materials		
Envioure Material		PH 13-8 Mo SST and 300 Series SST
Wetted Materials		
	20K thru 100K PSI	PH 13-8 M0 SS1





PRESSURE TRANSMITTER

Model 571

CERTIFICATIONS (Consult Factory for Available Options)

US Intrinsic Safety: Class I, II, III, Division 1, Groups A-G, Class 1, Zone 0, AEx ia IIC, T4 at Ta≤80°C, T5 at Ta≤40°C, Indoor and Outdoor NEMA/Type 4X

Hazardous Locations

Explosion Proof: for use in Class I, Division 1, Groups A-D, Class II/III, Div 1, Groups E,F,G,CL1, ZN 1, AEx d IIC, T5 at Ta≤88°C, NEMA/Type 4X,

Hazardous Locations

Nonincendive: CL I, DIV 2, GPS A-D, CL II DIV 2 GPS F, G, CL III, DIV 2 and CL I, ZN 2, GPS IIC, T4 at Ta≤80°C, T5 at Ta≤40°C, NEMA/Type 4X,

Hazardous Locations

Canada Intrinsic Safety: CL I, DIV 1, GPS A-D, CL II, DIV 1, GPS E-G, Class III, DIV 1, Ex ia IIC T4 at Ta≤80°C, T5 at Ta≤40°C, Per drawing CD0627

Explosion Proof: Class I, Division 1, Groups A-D, Class II, Division 1, Groups E-G, Class III, Enclosure Type 4, Dual Seal, Hazardous Locations

Europe Intrinsic Safety: **()** II 1 G Ex ia IIC Ga, T3 (-20°C≤Ta≤88°C), T4 (-20°C≤Ta≤75°C), T5 (-20°C≤Ta≤40°C)

EMC Directive 2004/108/EC

PED 97/23/EC

Russia Intrinsic Safety 0Ex ia IIC Ga X T4: $-20^{\circ}\text{C} \le \text{Ta} \le +80^{\circ}\text{C}$ T5: $-20^{\circ}\text{C} \le \text{Ta} \le +40^{\circ}\text{C}$

Flameproof Ex d IIC Gb X T6: $-20^{\circ}\text{C} \le \text{Ta} \le +40^{\circ}\text{C}$ Non-Sparking 2Ex nA IIC Gc X T4: $-20^{\circ}\text{C} \le \text{Ta} \le +80^{\circ}\text{C}$

Russian Metrology Certificate

OPTIONS

BB	.Mini change electrical connector
BP	.Micro change electrical connector
DF	.Bleed port (6K PSI and below)
DK	.Special shunt calibration
DN	.lmproved Accuracy (±0.15% FS0)
DQ	.Cleaning for oxygen service
DZ	.Noninteractive module
EA	.Special calibration run
FA	
ME	.CSA Explosion Proof label
NG	
NH	.Customer specified identification
NJ	.CE label
NK	.ATEX Intrinsic Safety label
NT	.Secondary containment
NX	.CSA Intrinsic Safety label
NY	.FM Explosion Proof label
NZ	.FM Nonincendive label
TF	.FM Intrinsic Safety label
TW	.EAC Ex Certification label
Q()	.Hastelloy, Inconel or 316 SST wetted parts
W()	.Alternate pressure ports
Υ()	.Alternateports
Ζ()	.Alternateelectricalconnection
ZU	

Note: Application of some available options may affect standard performance. Consult your Viatran representative for details.

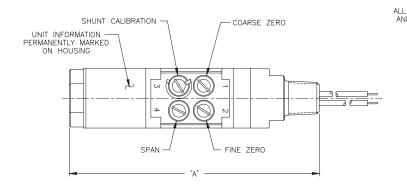
ACCESSORIES

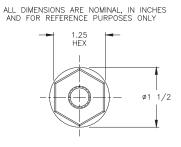
Mounting Bracket Conduit Connection Box Loop Powered Digital Indicator





DIMENSIONAL DATA





STD. UNIT LENGTHS BY RANGE (Options may change length, consult factory)	А
0-50 THRU 0-15,000 PSI	6.35
0-20, 000 THRU 0-50,000 PSI	6.72
0-60,000 THRU 0-100,000 PSI	7.47

INSTALLATION NOTES:

