



Rigel Series Pressure Transmitter Catalogue



RIGEL SERIES PRESSURE TRANSMITTER

APPLICATIONS:

- Hydraulic systems
- Pneumatic systems
- Steel industries
- Water treatment

- Pump operations and compressor controls
- Level measurement and control applications
- Glass and metal industries



SPECIFICATIONS:

• Performance characteristics

Range: (-)1...0 ~ 0.1...600 bar

Over pressure limit : 1.5 times FSR or 1100 bar (min. value is valid)

Pressure types: Gauge pressure, Absolute pressure, Differential pressure, Compound pressure

Accuracy: ±0.5% FS

Long term stability: ± 0.3% FS/year

• Environmental Characteristics

Operation temp range: -40°C to +80°C

Storage temp. range: -10°C to 60°C

Weatherproof/protection rating: IP65

• Physical characteristics:

Housing case: 316 Stainless steel

Ceramic sensor: Al oxide

Wetted material: SS316

Seal material: Viton (other options are available)

Pressure fittings: ¼" BSPM, ¼" NPTM, ½" BSPM, ½" NPTM, 1/8" BSPM, 1/8" NPTM, M12 x 1.5; other options are available

• Electrical data:

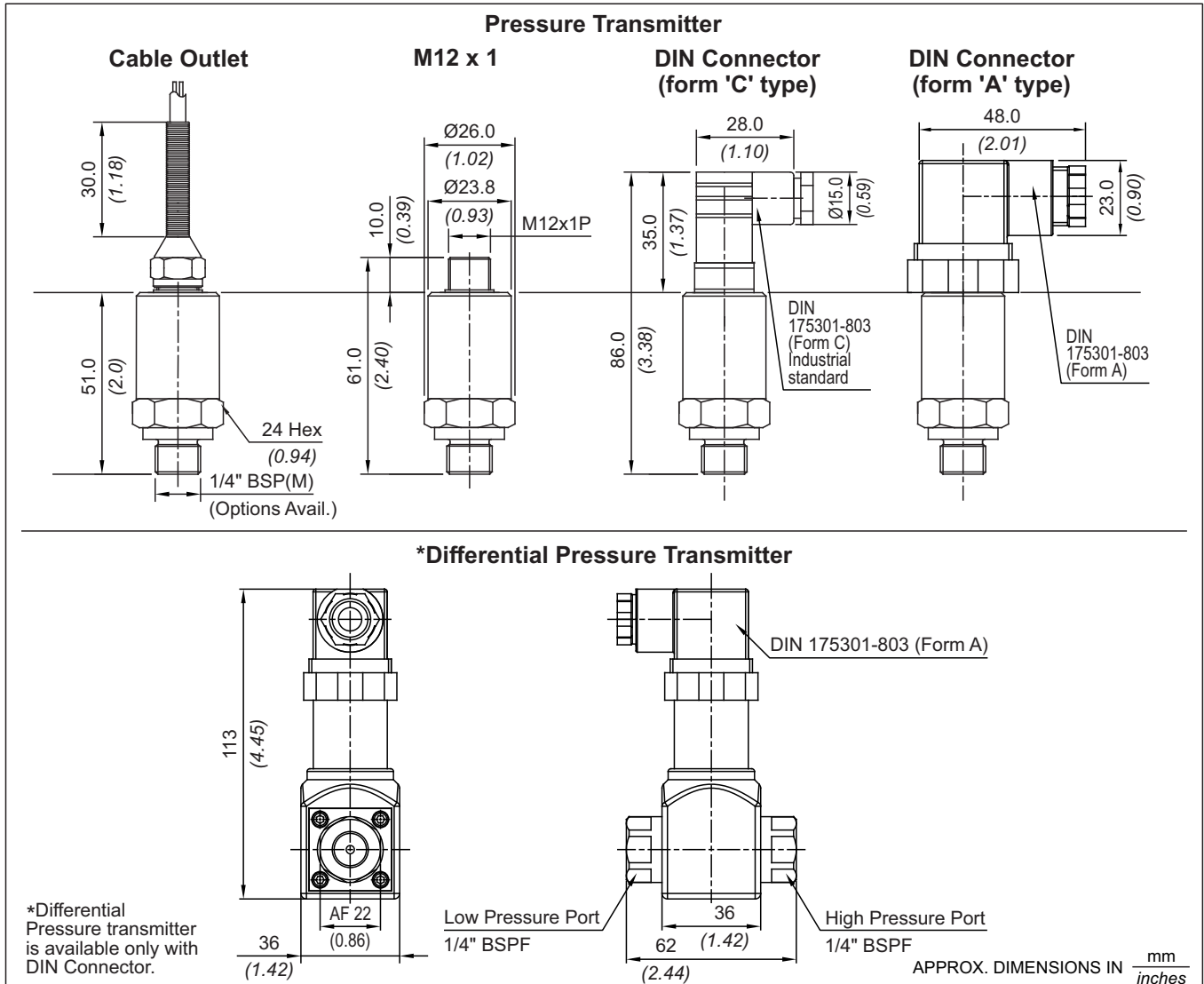
Electrical connection: DIN connector 4 pin; cable type; M12x1; 4-pin plug connector

Reverse connection protection: Yes (voltage output type supply+ & output+ cannot be reversed)

Output signals:

O/p signal	Power supply	O/p format	Load resistance
4mA - 20mA	12V – 28V DC	2 wire	≤(U-12) / 0.02Ω
0V – 10V DC	12V – 28V DC	3 wire	≥ 10K

INSTALLATION DRAWINGS



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ELECTRICAL CONNECTION

Output Signal	Equivalent Circuit	Electrical Connection	Function	Pin Assignment
4....20 mA (2 Wire)		M12 x 1, 4Pin Male Connector	U+	1
			U-	3
			NA	2
			NA	4
		Din Connector	U+	1
			U-	2
			NA	3
			NA	4
		Cable outlet	U+	Red (RD)
			U-	Black (BK)

0....10 V (3 Wire)		M12 x 1, 4Pin Male Connector	U+	1
			U-	3
			S+	4
			NA	2
		Din Connector	U+	1
			U-	2
			S+	3
			NA	4
		Cable outlet	U+	Red (RD)
			U- / 0V	Black (BK)
			S+	Green (GN)

Legend :

U+ - Positive Power Supply Terminal

U- - Negative Power Supply Terminal

S+ - Positive Output Terminal (Analog)

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MEASURING RANGE Scale: bar

Gauge pressure:

Code	00006	00010	00016	00025	00100	00200	00400	00600
Range	0 ~ 6	0 ~ 10	0 ~ 16	0 ~ 25	0 ~ 100	0 ~ 200	0 ~ 400	0 ~ 600

Absolute pressure:

Code	00001	00006	00010
Range	(-)1 ~ 0	(-)1 ~ 5	(-)1 ~ 9

Differential pressure:

Code	00.35	000.7	00001	00002	0003.5	00007	00010	00012	00035
Range	0 ~ 0.35	0 ~ 0.7	0 ~ 1	0 ~ 2	0 ~ 3.5	0 ~ 7	0 ~ 10	0 ~ 12	0 ~ 35

HOW TO ORDER TABLE FOR TRANSMITTER

Gr. 1	Gr. 2	Gr. 3	Gr. 4	Gr. 5	Gr. 6	Gr. 7	Gr. 8
N	- RL	- 00	- X X	00 - X X X X X	# - XY	- X X	00 - 00
Model name	Device Type P = pressure	Electrical connection #01 = Din Connector (DIN 175301-803 Form C, Industrial standard) #02 = cable type (1m length)* #03 = M12 x 1 4 pin plug connector #04 = Din Connector (DIN 175301-803 Form A)	Accuracy #01 = ± 0.5 % FS	Maximum range (refer pressure table above)	Electrical output #E0 = 4-20 mA loop powered #E3 = 0-10 VDC	Seal material V = viton S = silicone	Sensor type #01 = ceramic (only for Pressure ranges 0-200 bar) #02 = SS316
Non standard allocation 'N' Reserved for non-standard options not covered in the catalogue. Will be given by manufacturer only after agreement of supply details with customer.			Pressure Type G = Gauge pressure A = Absolute pressure SD = Differential pressure C = Compound pressure	Measuring unit B = bar P = psi K = kg/cm ² R = mbar C = kPa	Port material S = SS316	Port Size #01 = 1/4" BSPM #02 = 1/4" NPTM #03 = 1/2" BSPM #04 = 1/2" NPTM #05 = 1/8" BSPM (≤ 400 bar) #06 = 1/8" NPTM (≤ 400 bar) #07 = M12 x 1.5 male #08 = 1/4" BSPTM #09 = 3/8" BSPM #10 = M10 x 1 male #11 = 1/4" BSPF #0T = 1.5" Triclover	

#Not available for Differential Pressure Transmitter

*Contact Sales Office for longer length cable

\$ Available only with option 04 in Gr. 3

eg. A RL series pressure transmitter with 4 pin DIN connector electrical connection, having 0-10 bar gauge pressure range with 4-20mA electrical output, viton seal, SS316 pressure port with 1/4" port size and ceramic diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
□	RL	01	PG01	00010B	E0	VS01	01



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