



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: $\pm 0.5\%$ FS

Long term stability: $\pm 0.3\%$ 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: 1/4" BSPM, 1/4" NPTM, 1/2" BSPM, 1/2" 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;

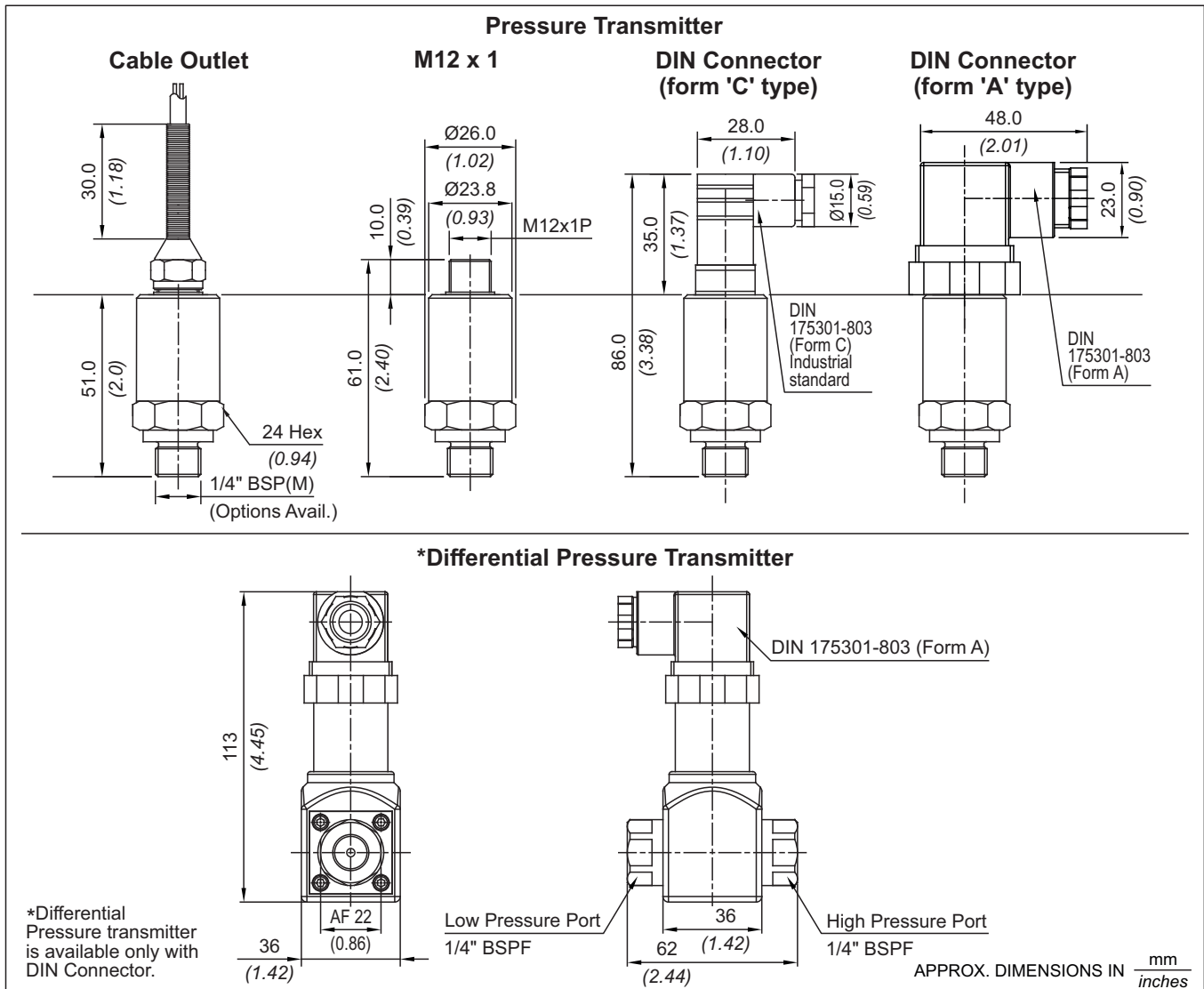
M12x1; 4-pin plug connector

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

Output signals:

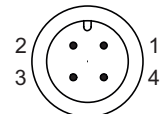
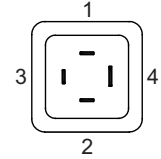
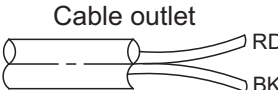
O/p signal	Power supply	O/p format	Load resistance
4mA - 20mA	12V – 28V DC	2 wire	$\leq (U-12) / 0.02\Omega$
0V – 10V DC	12V – 28V DC	3 wire	$\geq 10K$

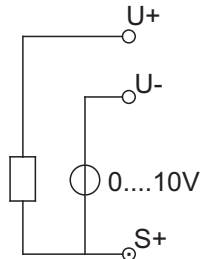
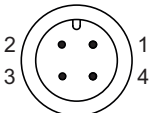
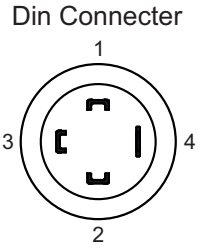
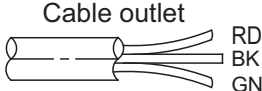
INSTALLATION DRAWINGS



RIGEL SERIES PRESSURE TRANSMITTER

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
		Din Connector 	U+	1
			U-	2
			NA	3
		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
		Din Connector 	U+	1
			U-	2
			S+	3
		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)

RIGEL SERIES PRESSURE TRANSMITTER

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
Non-standard allocation	Model	Electrical connection	Device type (X) Pressure type (Y) Accuracy (ZZ)			Pressure range Measuring Unit		Electrical output	Seal material (X) Port material (Y) Port size (ZZ)			Sensor type
N	RL	XX	X	Y	ZZ	XXXXX	Y	XX	X	Y	ZZ	XX
□ A prefix "N" is used in the model code in case of any non-standard options / accessories that are provided with the transmitter The prefix is subject to change as per specific requirement	RL = Pressure Transmitter	#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)	Device Type = P (pressure) Pressure Type = G (Gauge pressure) A (Absolute pressure) \$D (Differential pressure) C (Compound pressure) Accuracy 01 = ± 0.5 % FS			XXXXX = Range code in 05 digit (Please refer pressure range code table above) Y = Measuring unit Measuring unit B = bar P = psi K = kg/cm² R = mbar C = kPa		E0 = 4-20 mA loop powered #E3 = 0-10 VDC	Seal material V = viton S = silicone Port material S = SS316 Port Size 01 = 1/4" BSPM 02 = 1/4" NPTM 11 = 1/4" BSPF 0T = 1.5" Triclover Please contact sales office for other port sizes			#01 = ceramic (only for Pressure ranges 0-200 bar) 02 = SS316

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

Note : As efforts are being made constantly to improve the design and method of manufacture, the product being supplied may differ in detail from illustration and data printed in this document. Please check our website for the updated information and contact our sales office for the specifications while ordering the product.



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