Rigel Series Pressure Transmitter






Introduction :

Rigel series transmitter is the ideal solution for users with demanding measurement requirements in general industrial applications. It provides high performance combined with safe and reliable operation, even under extreme conditions.
It is available in a durable “heavy-duty” version featuring a robust all-stainless-steel design. This allows the Rigel to easily withstand severe pressure, harsh operating conditions, high temperatures, and various media.

Applications:

Hydraulic systems I Pneumatic systems I Steel industries I
Pump operations & compressor controls I Glass industries
Level measurement & control applications I Water treatment I

Specifications:

Performance characteristics
Range: (-)1...0 ~ 0.1...600 bar
Over pressure limit : 1.5 times FSR or 1100 bar (min. is valid)
Pressure types: Gauge, Absolute, Differential, Compound
Accuracy: ±0.5% FS
Long term stability: ± 0.3% FS/year

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

Environmental Characteristics
Operation temp range: (-)40°C to 80°C
Storage temp. range: (-)10°C to 60°C
Weatherproof/protection rating: IP65

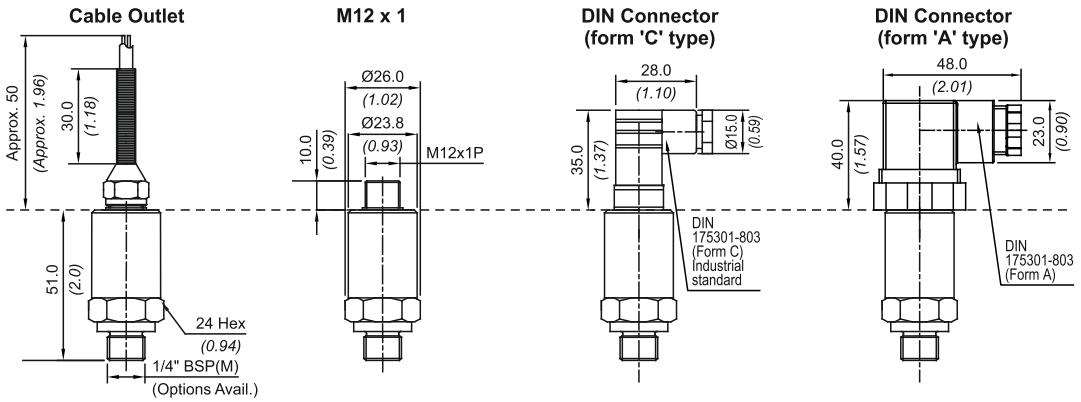
Electrical data:
Electrical connection: DIN connector 4 pin; cable type; M12x1;4-pin plug connector
Reverse connection protection: Yes (voltage output type supply+ & output+ cannot be swapped)

Output signals:

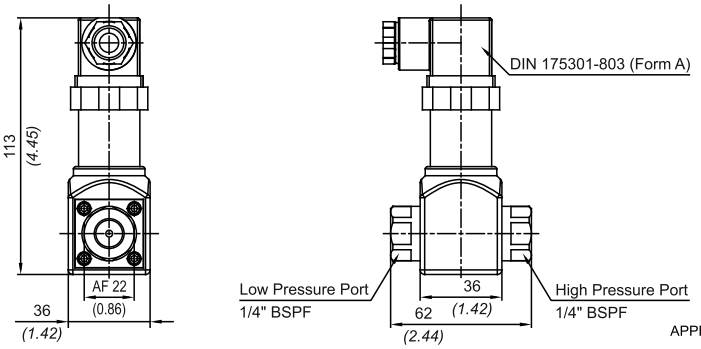
O/p signal	Power supply	O/p format	Load resistance
4mA - 20mA	12V – 28V DC	2 wire	≤(U-12) / 0.02Ω
0V – 10V DC	12V – 28V DC	3 wire	≥ 10K

Installation Drawings:

Pressure Transmitter



***Differential Pressure Transmitter**



*Differential Pressure transmitter is available only with DIN Connector.

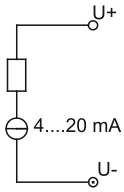
APPROX. DIMENSIONS IN mm / inches

Electrical Connection:

Output Signal

4....20 mA (2 Wire)

Equivalent Circuit

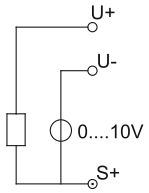


Electrical Connection	Function	Pin Assignment
M12 x 1, 4Pin Male Connecter	U+	1
	U-	3
	NA	2
	NA	4
Din Connecter	U+	1
	U-	2
	NA	3
	NA	4
Cable outlet	U+	Red (RD)
	U-	Black (BK)

Output Signal

0....10 V (3 Wire)

Equivalent Circuit



Electrical Connection	Function	Pin Assignment
M12 x 1, 4Pin Male Connecter	U+	1
	U-	3
	S+	4
	NA	2
Din Connecter	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 I U- = Negative Power Supply Terminal I S+ = Positive Output Terminal (Analog)

Range Code Table: 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:

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 this product	**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 **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** = ¼" BSPM **02** = ¼" NPTM **11** = ¼" 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

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.*

ISO 9001:2015
Certificate No.: **FM 72815**

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