

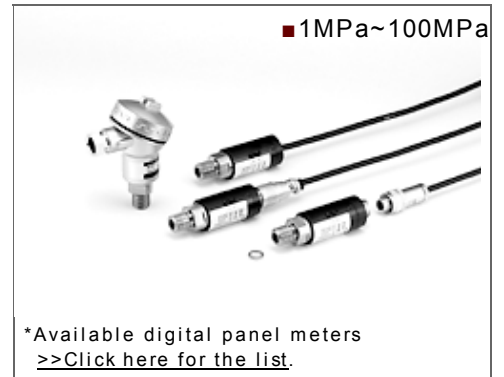
Pressure Transmitter

General-purpose Pressure Transmitter for Middle High Pressure

VPRQ(F) series

- Sensor machined integral with diaphragm offers durability and long life.
- Abundant analog output available.
[4~20mA (2 wire system, 4 wire system), 1~5V, 0~5V, 0~10V]
- Economy type that offers quick delivery and low price.

Measured medium	Water, oil, gases or other media that will not corrode SUS630 or 15-5PH (precipitation-hardened stainless steel).
Pressure type	Positive and compound pressures can be measured.
Measured Range	Can be specified within the range of 1 kPa to 100 MPa of rated capacity (Calibration range: 0.5 MPa to 100 MPa). Specify more than 50% of rated capacity as the calibration range.
Output type	Specify among 4 to 20 mA (2-wire, 4-wire), 1 to 5 V, 0 to 5 V, and 0 to 10 V.



Specification	
Non Linearity	±0.8%R.C. (100MPa: ±1%R.C.)
Hysteresis	±0.8%R.C. (100MPa: ±1%R.C.)
Compensated Temperature Range (Temperature of medium to be measured)	-30~70°C(No condensation or freezing)
Safe Temperature Range (Temperature of medium to be measured)	-40~100°C(No condensation or freezing)
Temperature Effect on Zero Balance	±0.2%R.C./10°C(100MPa:±1%R.C./10°C)
Temperature Effect on Load	±1%R.C./10°C
Safe Overload Rating	150%R.C.
Ultimate Overload Rating	200%R.C.
Insulation Resistance	100MΩ or more (DC50V)
Pressure Port Material	SUS630 or 15-5PH (Precipitation hardening stainless steels) (*1)
Connection Screw	Selectable: R3/8 and G3/8 (100MPa: G1/2 only)
Fastening Torque;Recommended	1~5MPa: 20N・m 10~50MPa: 40N・m, 100MPa: 80N・m

Fastening Torque;Maximum	1~5MPa: 30N・m 10~50MPa: 60N・m, 100MPa: 120N・m
Power	Selectable: ☐ DC24V(±10%), ☐ DC12V(±10%) *Only 24V DC available when analog output is ☐ A5.
Cable	4- or 2-core shielded (oilproof) cable 2m(Standard) φ6mm
Weight	Approx. 200g(Cable not included)
Accessories	Operation manual (1 copy)(Specify English or Japanese.) Test report (1 copy) Copper packing(×1)(G screw only)

(*1)Running change planned (since October 2011). Refer to [Spec Change & Discontinued Models](#) for details.

Model Selection						
	①基本型式 Model	②アナログ出力 Output	③校正レンジ Calibration	④ケーブル接続形状 Cable Connection	⑤電源 Power	⑥ケーブル長さ Length(Cable)
型式指定 Example	☐ ①	—	☐ ②	—	☐ ③	☐ ④

Selection	Check	Model	Specification			
1.Model		VPRQ	General-purpose Pressure Transmitter for Middle High Pressure *Connection screw: R3/8			
		VPRQF	General-purpose Pressure Transmitter for Middle High Pressure *Connection screw: G3/8(100MPa: G1/2 only)			
2.Analog output *Only ☐ A6 available for waterproof terminal box type	-	-	Output type	Response frequency	Safe load resistance	Consumption current
		A2	1~5V	500Hz	5kΩ or more	Approx. 23mA
		A3	4~20mA (4 wire system)		DC24V: 500Ω or less DC12V: 250Ω or less	Approx. 40mA
		A4	0~5V		5kΩ or more	Approx. 23mA
		A5	0~10V		5kΩ or more	Approx. 23mA
		A6	4~20mA (2 wire system)	1kHz	DC24V: 500Ω or less DC12V: 150Ω or less	-

	-	-	Rated capacity	Example of calibration range		
3. Calibration		See right table. Enter the range in the as it is.	1MPa	1MPa (0~1)MPa	0.5MPa (0~0.5)MPa	-0.1~1MPa (-0.1~1)MPa
			2MPa	2MPa (0~2)MPa	1MPa (0~1)MPa	-0.1~2MPa (-0.1~2)MPa
			5MPa	5MPa (0~5)MPa	2.5MPa (0~2.5)MPa	-0.1~5MPa (-0.1~5)MPa
			10MPa	10MPa (0~10)MPa	5MPa (0~5)MPa	9.8MPa (0~9.8)MPa
			20MPa	20MPa (0~20)MPa	10MPa (0~10)MPa	19.6MPa (0~19.6)MPa
			35MPa	35MPa (0~35)MPa	17.5MPa (0~17.5)MPa	34.3MPa (0~34.3)MPa
			50MPa	50MPa (0~50)MPa	25MPa (0~25)MPa	49MPa (0~49)MPa
			100MPa (VPRQF only)	100MPa (0~100)MPa	70MPa (0~70)MPa	98.1MPa (0~98.1)MPa
4. Cable Connection		Blank	Standard connector Equivalent to IP40			
		W	Waterproof connector Equivalent to IP56			
		S	Pigtail Equivalent to IP54			
		T	Waterproof terminal box type Equivalent to IP55 *Applicable only when analog output is A6 . • Cable not included			
5. Power		4	DC24V(±10%)			
		5	DC12V(±10%) *Not available when analog output is A5 .			
6. Length(Cable)		2m	2m Standard			
		3m	3m			
		5m	5m			
		10m	10m			
		m	Other length *Contact our sales office for other cable lengths.			

Learn more about external dimensions.