

Pressure Transmitter for Flush type Middle High Pressure

VPRF series

1MPa–50MPa



List of digital panel meters

- Suitable for measurement of viscous media since the flush type (no feed port) wetted part is hardly clogged up.
- Wetted part constructed integral with diaphragm does not use any sealed liquid, offering durability, reliability and long life.
- Abundant analog output available.
[4–20mA (2 wire system, 4 wire system), 1–5V, 0–5V, 0–10V]

Measured medium	Water, oil, gases or other media that will not corrode 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 MPa to 50 MPa of rated capacity (Calibration: 0.5 MPa to 50 MPa).
Output type	Specify among 4 to 20 mA (2 wire system, 4 wire system), 1 to 5 V, 0 to 5 V, and 0 to 10 V.

Specifications

Non Linearity	±0.5%R.C.
Hysteresis	±0.5%R.C.
Compensated Temperature Range (Temperature of medium to be measured)	–10–50°C (No condensation or freezing)
Safe Temperature Range (Temperature of medium to be measured)	–10–75°C (No condensation or freezing)
Temperature Effect on Zero Balance	±0.8%R.C./10°C
Temperature Effect on Load	±0.8%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	15-5PH (Precipitation hardening stainless steels) (*1)
Connection Screw	G3/8
Recommended fastening Torque	10–20N·m
Fastening Torque;Maximum	30N·m
Power	Selectable: 4 DC24V (±10%), 5 DC12V (±10%) *Only 24V DC available when analog output is A5
Cable	4- or 2-core shielded (oilproof) cable 2m Standard φ6mm
Weight	Approx. 300g (Cable not included)
Accessories	Operating manual 1 copy (Specify English or Japanese.) Test report 1 copy Aluminum packing(×1)(Copper packing × 1 for 50 MPa model only)

Model Selection

	①Model		②Analog output		③Calibration		④Cable Connection		⑤Power		⑥Length (Cable)
Example	VPRF	—	②	—	③		④	—	⑤		⑥

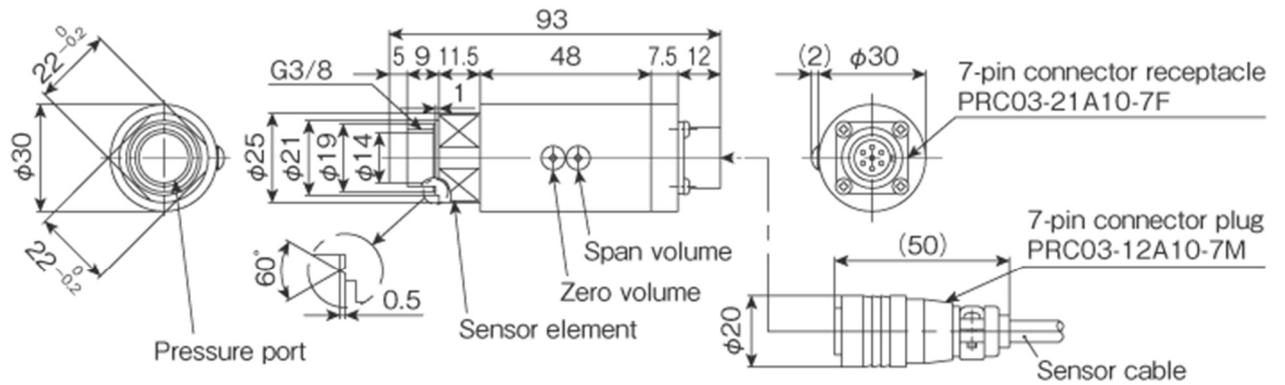
Selection	Check	Model	Specifications			
1.Model	○	VPRF	Pressure Transmitter for Flush type Middle High Pressure *Connection screw: G3/8			
2.Analog output *Only A6 available for waterproof terminal box type	-	-	Output type	Response frequency	Safe load resistance	Consumption current
		A2	1–5V	500Hz	5kΩ or more	Approx. 23mA
		A3	4–20mA (4-wire)		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)	1kHz	DC24V: 500Ω or less/ DC12V:150Ω or less	-
3.Calibration	-	-	Rated capacity	Example of calibration range		
		See right table. Enter the range in the <input type="text"/> as it is.	1MPa	<input type="text"/> 1MPa(0–1) MPa	<input type="text"/> 0.5MPa(0–0.5) MPa	
			2MPa	<input type="text"/> 2MPa(0–2) MPa	<input type="text"/> 1.5MPa(0–1.5) MPa	
			5MPa	<input type="text"/> 5MPa(0–5) MPa	<input type="text"/> 3MPa(0–3) MPa	
			10MPa	<input type="text"/> 10MPa(0–10) MPa	<input type="text"/> 7MPa(0–7) MPa	
			20MPa	<input type="text"/> 20MPa(0–20) MPa	<input type="text"/> 14MPa(0–14) MPa	
			50MPa	<input type="text"/> 50MPa(0–50) MPa	<input type="text"/> 35MPa(0–35) 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 <input type="text"/> A6. Cable not included			
5.Power		4	DC24V (±10%)			
		5	DC12V (±10%) *Not available when analog output is <input type="text"/> A5			
6.Length (Cable)		2m	2m Standard			
		3m	3m			
		5m	5m			
		10m	10m			

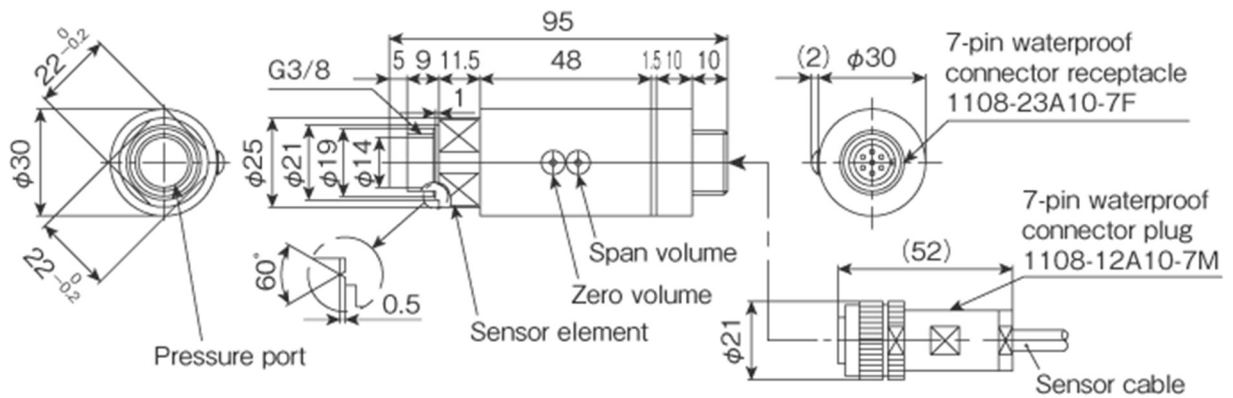
		□□m	Other length *Contact our sales office for other cable lengths.
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External dimensions (Unit: mm)

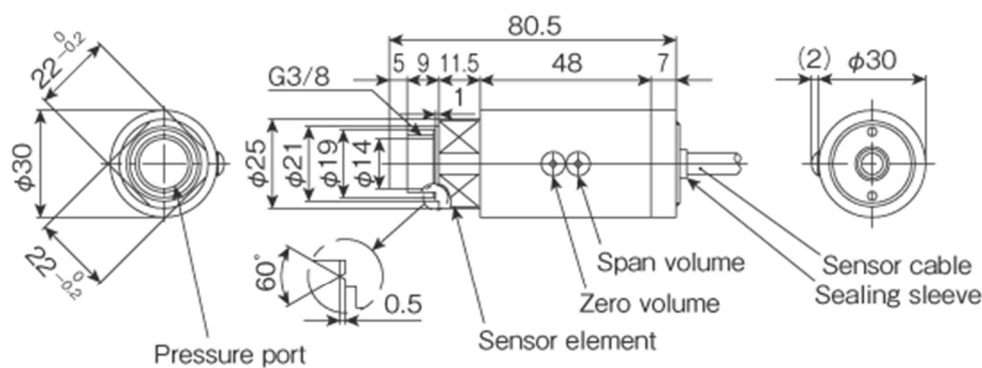
● Standard connector type



● Waterproof connector type



● Pigtail cable type



● Waterproof terminal box type

