Controller Series PSE300



Note) These options are unassembled in the factory, but are included with the shipment.



Specifications

	Conforms to CE marking and UL (CSA) standards.							
Model				PSE	30			
Set (differential) pressure range		-101 to 101 kPa	10 to –101 kPa	-10 to 100 kPa	-0.1 to 1 MPa	-50 to 500 kPa	–0.2 to 2 kPa	
Pressure range Note 1)		For compound pressure	For vacuum	For low pressure	For positiv	/e pressure	For low difference pressure	
Rated (differential) pressure range		-100 to 100 kPa	0 to –101 kPa	0 to 100 kPa	0 to 1 MPa	0 to 500 kPa	0 to 2 kPa	
Power supply voltage		12 to 24 VDC, Ripple (p-p) 10% or less (With power supply polarity protection)						
Current consumption		50 mA or less (Current consumption for sensor is not included.)						
Sensor input No. of inputs		1 to 5 VDC (Input impedance: 1 MΩ)						€□
		1 input						ELL
	Input protection		W	/ith excess voltage protection (Up to 26.4 V)				SF
Hysteresis		Hysterisis mode: Variable, Window comparator mode: Variable						
Switch output		NPN or PNP open collector output: 2 outputs						SF 3
	Maximum load current	80 mA						
	Maximum load voltage	30 VDC (at NPN output)						
	Residual voltage	1 V or less (With load current of 80 mA)						
	Output protection	With short circuit protection						
Response time		1 ms or less						
Anti-chattering function		Response time settings for anti-chattering function: 20 ms, 160 ms, 640 ms, 1280 ms						SP
Repeatability		±0.1% F.S. or less						<u> </u>
Analog output	Voltage output Note 2)	Output voltage: 1 to 5 V (Within rated pressure range (Differential pressure)), Output impedance: Approx. 1 kΩ						3A2
		Linearity: ±0.2% F.S. (Not including sensor accuracy), Response speed: 150 ms or less						
	Accuracy (To display value) (25°C)	±0.6% F.S. or less ±1.0% F.S. or less ±1.5% F.S. or less						
	Current output Note 2)	Output current: 4 to 20 mA (Within rated pressure range)						_
		Maximum load impedance: 300 Ω (at 12 VDC), 600 Ω (at 24 VDC), Minimum load impedance: 50 Ω						SM
	(T) (0500)	Linearity: ±0.2% F.S. (Not including sensor accuracy), Response time: 150 ms or less						
	Accuracy (10 display value) (25°C)	±1.0% F.S. or less ±2.0% F.S. or less PF						
Display accuracy (Ambient temperature of 25°C)		±0.5% F.S. ±2 digits or less ±0.5% F.S. ±1 digit or less						
Display		3 + 1/2 digit, / segment indicator, 2-color display (Hed/Green), Sampling frequency: 5 times/sec						
Indicator light		Non voltage input (Read or Solid state) Low level input 5 ms or more Low level 0.4 V or less						ata
		INOT-VOITAGE ITIPUT (THEED OF SOTIO STATE), LOW TEVEL ITIPUT S THS OF THORE, LOW TEVEL U.4 V OF TESS						
Resistance		IF40 Operating: 0 to 50°C Stored: -10 to 60°C (No freezing or condensation)						
	Operating temperature range	Operating: U to 50 °C, Stored: -10 to 50 °C (No freezing or condensation)						
	Withstand voltage	1000 VAC for 1 minute between live parts and case						
	Insulation resistance	50 MQ or more between live parts and case						
	Vibration resistance	10 to 150 Hz at which over is smaller of 1.5 mm amplitude or 08 m/s^2 acceleration in X. X. Z directions for 2 hours each /De anamized)						
	Impact resistance	10 to 10 10 12 at whichever is smaller of 1.5 min amplitude of so mis- acceleration, in A, t, 2 directions, to 2 hours each (De-energized)						
Ter	nnerature characteristics	+0.5% ES or less (Based on 25°C)						
Connection		Power supply/Output connection: 5P connector. Sensor connection: 4P connector						
Material		Front case: PRT Rear case: PRT						
ti ti	With nower supply/output connection cable	85 g						
Neig	Without nower supply/output connection cable	20 g						
~	malour portor ouppry/output connection cable	30 g						

Note 1) Pressure range can be selected during initial setting.

Note 2) Auto shift function is not available when analog output option is selected.

Also, analog output option is not available when auto shift function is selected. Note 3) The following units can be selected with unit conversion function: For vacuum & compound pressure: kPa-kgf/cm²-bar-psi-mmHg-inHg For positive pressure & low pressure: MPa-kPa-kgf/cm²-bar-psi

For low differential pressure: kPa·mmH2O

Analog Output



