Test&Measurement



External pressure sensor PM100 (16 MPa Range)

Pressure measurement up to 16 MPa with the CA700!

Main features

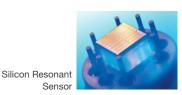
The highest measurement accuracy in field type Basic accuracy: 0.01% of reading

The highest resolution in class

0.0001 MPa is achieved in each range

Multi range

Three ranges of 7 MPa/10 MPa/16 MPa are built into one unit







16.0000

CA700

Basic Specifications (Measurement Unit) 23°C ±3°C

Items		Specifications				
Pressure type		Shield gauge				
Measurement Range		0 to 7 MPa sg	0 to 10 MPa sg	0 to 16 MPa sg		
Measurement display range		to 8.4000 MPa	to 12.0000 MPa	to 19.2000 MPa		
Measurement accuracy*1, *2	6*3 months after calibration (Test after zero calibration)*5	± (0.01% of reading + 2 kPa)	± (0.01% of reading + 3 kPa)	± (0.01% of reading + 5 kPa)		
	1*4 year after calibration (Test after zero calibration)*5	± (0.01% of reading + 2.8 kPa)	± (0.01% of reading + 3.8 kPa)	± (0.01% of reading + 5.8 kPa)		
Resolution		0.0001 MPa (0.1 kPa)				
Allowable input		2.7 kPa abs to 23 MPa sg				
Response time*6		2.5 s				
Internal volume		Approx. 6 cm ³				
Temperature coefficient		± (0.001% of reading + 0.16 kPa) / °C or less				
Influence of positional setup		Zero point drift ±1 kPa or less				
Measurement fluid		Gas and liquid (non-corrosive, non-flammable, non-explosive, and non-toxic fluids)				
Measurement fluid temperature		-10 to 50°C (Liquid temperature 5 to 50°C)				
Pressure sensor		Silicon resonant sensor				
Pressure sensor element		Diaphragm				
Input port		1/2 NPT female thread				
Measurement unit material		Diaphragm: Hastelloy C276 and input port: SUS316				

^{*1.} Yokogawa's pressure standard accuracy is excluded
*2. The value measured with PM 100 is in digital communication with CA700, and there is no error during this time.

Precision Making LF PM100-01EN

^{*3. 23°}C±3°C, 6 months after calibration, Test after zero calibration
*5. Zero-point calibration condition: Under atmospheric pressure

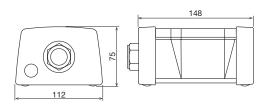
*6. Time from 3.5 MPa to atmospheric release and from 0 Pa to ±3.5 kPa

General Specifications

Warm-up time	Approx. 5 minutes		
Protection grade	IP54 dustproof and waterproof struture		
Dimensions	Approx. 112 (W) × 75 (H) × 148 (D) mm		
Weight	Approx. 1.2 kg		
Compliance	Safety: EN61010-1 (contamination class 2)		
Standards	EMC: EN61326-1 Class A, EN55011 Class A Group1		
Operating temperature/ humidity range	-10 to 50°C 20 to 80% (no condensation)		
Storage temperature/ humidity range	-20 to 60°C 20 to 80% (no condensation)		
Accessories	Connection cable (1 m, Waterproof connector) 1/2" NPT male thread to 1/8" NPT female thread 1/2" NPT male thread to 1/4" NPT female thread 1/2" NPT male thread to Rc 1/4" female thread		

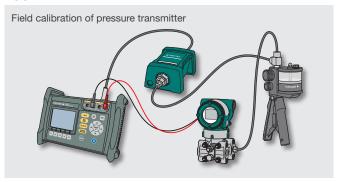
PM100 External Dimensions

Unit: mm



Unless otherwise specified, the dimensional tolerance is ±3% (but less than 10 mm is ±0.3 mm).

Applications



Model and Suffix Code

Product name	Model	Suffix C	ode	
External Pressure	PM100			General use type
sensor		-E		All countries except Japan
		-05		Shield gauge Pressure (7 MPa/10 MPa/16 MPa Range switching)
			-P3	(1/2" NPT female thread)

Related Product



PM100 Accessories

Product name	Model	Specification
Connection cable	95020	1 m
Connector	91083	1/2" NPT male thread to 1/8" NPT female thread conversion connector (for PM 100)
Connector	91084	1/2" NPT male thread to 1/4" NPT female thread conversion connector (for PM 100)
Connector	91085	1/2" NPT male thread to Rc1/4" female thread conversion connector (for PM 100)





Connector 91084 1/2" NPT male thread to 1/4" NPT female





NOTICE

• Before operating the product, read the user's manual thoroughly for proper and safe operation.

- Yokogawa's approach to preserving the global environment • Yokogawa's electrical products are developed and produced in facilities that have received ISO14001 approval.
- In order to protect the global environment, Yokogawa's electrical products are designed in accordance with Yokogawa's Environmentally Friendy Product Design Guidelines and Product Design Assessment Criteria.

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