

KH78

Pressure Transmitter for High Pressure

Overview

This product is a pressure transmitter for high-pressure measurement, which detects the slight distortion generated in the pressure receiving part by the pressure and converts the pressure into the current or voltage proportional to the pressure in the built-in electronic circuit. Because this pressure transmitter is compact design, it is able to use for control and monitor high pressure by incorporating in the equipment such as high-pressure chemical synthesis equipment, artificial crystal manufacturing equipment or withstanding pressure inspection equipment.



Features

- Carefully selected reliable strain gauge is featured to offer long stability performance
- High pressure sensing technology proven through many years experience contributes high reliable safety construction
- Compact design with built-in amplifier

Specifications 1

Media:

Gases and Fluids

* Make sure the process media is non-corrosive for the measurement 500MPa and above (Water is not allowed for process media).

Installation Environment:

Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition

Type:

Wire connector type

Connection:

G3/4B

Wetted parts:

At 300MPa range or lower

Diaphragm SUS630

Fitting SUS630

At 500MPa range or higher

Pressure receiving section MAS1 (Maraging steel)

Fitting SUS630

Pressure range:

0 to 100→0 to 1000MPa

Allowable maximum pressure:

120% of pressure range

Operating temperature:

0 to 50°C (Non-condensing)

Storage temperature:

-20 to 60°C (Non-freezing or condensing)

Accuracy:

±1.0%F.S

Temperature coefficient:

±0.05%/°C (Both zero and span)

Cable:

4 core 2m shielded cable

Case material:

A5056BD

Enclosure:

Drip-proof type (IP52)

Weight:

Approx. 1.6kg

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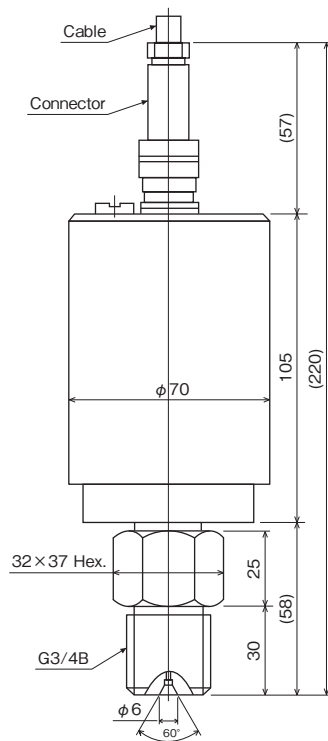
Specifications2

Electrical characteristics:

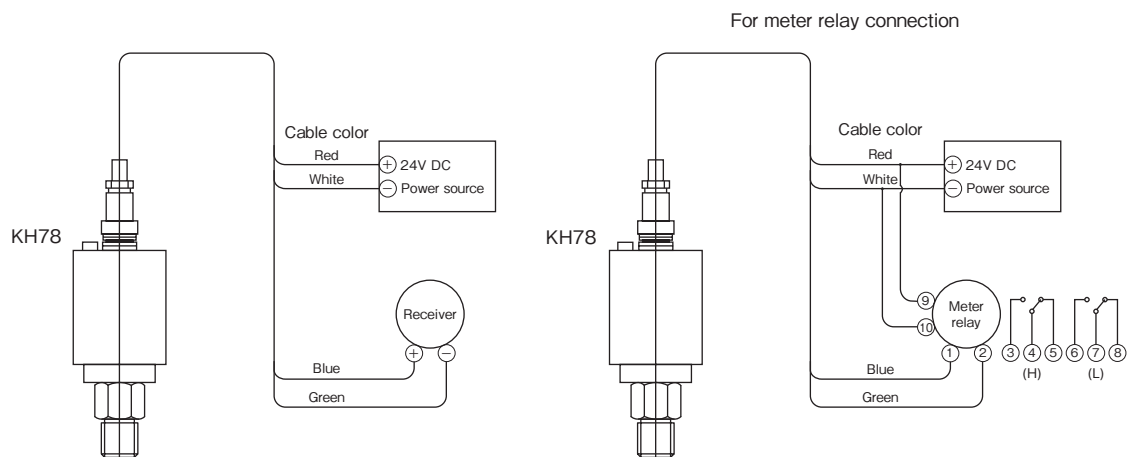
Power source	Output	Load resistance	Transmission system	
24V DC \pm 10%	Current output	0 to 5mA DC	2k Ω max.	4 wire system
		0 to 10mA DC	1k Ω max.	
		0 to 20mA DC	500 Ω max.	
		4 to 20mA DC	500 Ω max.	
	Voltage output	0 to 5mV DC	1k Ω min.	
		0 to 10V DC	1M Ω min.	
	1 to 5V DC	500k Ω min.		

Dimensions

Unit: mm



Wiring



Model number configuration

Please specify the model number, each specs and the range for ordering.

Model																
K H 7 8	—	1	6	1	—	7	1	×	×	×	×	×	×	×		
Pressure Transmitter		①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮
Model number					Product specifications					Additional specifications (Optional)						
① Type	1	Connector type (With 2m shield cable)														
② Connection	6	G3/4B														
③ Wetted parts	1	Diaphragm: SUS630 Pressure receiving section: MAS 1							Fitting: SUS630 (0 to 300MPa or lower) Fitting: SUS630 (0 to 500MPa or higher)							
Please specify pressure range and unit of measure along with corresponding ordering code.	④ Pressure range (MPa)	1	0 to 100, 200, 300													
	2	0 to 500, 700														
	3	0 to 1000														
⑤ Accuracy	7	±1.0%F.S. (Standard)														
⑥ Supply voltage	1	24V DC±10%														
Output	⑦	1	4 to 20mA DC				4 wire system									
	2	0 to 5mA DC				4 wire system										
	3	0 to 10mA DC				4 wire system										
	4	0 to 20mA DC				4 wire system										
	7	0 to 10V DC				4 wire system										
	H	0 to 5mV DC				4 wire system										
⑧ Treatment	0	Not required														
1	Use no oil															
2	Use no water															
3	Use no oil & water															
⑮ Documents	0	Not required														
1	Required (Documents available upon request) Datasheet (Drawing / Specifications) Instruction manual Inspection procedure Mill test report Calibration test report (One-part one sheet) Inspection / Traceability certificate Calibration test report for pressure standard Strength calculation sheet Attending inspection															

Connector: 1108-12A10-5F
(Made by Tajimi Electronics Co., Ltd.)

Shield cable (Standard)
Environmental temperature : -30 to 60°C
Conductor Cross-section area (mm²): 0.3
Construction : 12/0.18
Cable outer diameter : 8mm

[Manufacturing range]
• Process media: Make sure the process media is non-corrosive for the measurement 500MPa and above (Water is not allowed for process media).

Treatment against wetted parts

■ Use no oil

Oil used in manufacturing the gauges had been flushed out & no oil residue remained inside its wetted parts.

■ Use no water

Water used in manufacturing the gauges had been flushed out & no water residue remained inside its wetted parts.

■ Use no oil & water

Oil/Water used in manufacturing the gauges had been flushed out & no oil/water residue remained inside its wetted parts.

* Specify code "X" to refer N/A