



TECHNICAL GUIDANCE

All-fluoresin, highly corrosion-resistant purgometer for measuring liquids and gases

P-710 Purgometer

OUTLINE

The P-710 is a light, compact, fluororesin body purgometer ideal for measuring various corrosive solutions.

MAJOR APPLICATIONS

General purpose (small flow rate)

STANDARD SPECIFICATIONS

Measuring fluid	Gases Liquids	
Measuring range	Air	Min. 50 to 500 mL/min (nor) Max. 2 to 20 L/min (nor)
	Water	Min. 3 to 30 mL/min Max. 0.4 to 2 L/min
	<ul style="list-style-type: none"> When selecting a flow range, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001). When selecting a flow range, refer to the standard flow rate. 	
Range ability	10:1 (10:2 for some models)	
Indication accuracy	±5% F.S.	
Fluid pressure	Max. 0.5MPa	
Fluid temperature	Max. 70°C	
Material	Meter body	ETFE (Rc1/8) (Standard), PFA (Pillar fitting)
	Tapered tube	Heat-resistant glass (Standard), PCTFE
	Gasket	PTFE
	Support	Polycetal (Standard), PPS
	Cover	Polycarbonate
Process Connection	Rc : 1/8" (Standard) Pillar fitting : (OD) 6.35mm, 6mm, 8mm	
Mounting	Screw mount on the panel front (Standard) Panel embedded mounting	
Mass	approx. 0.1kg	



BASIC MODEL CODE

		Model Code								Descriptions	Notes	
P-710	-	□	□	-	□	□	-	□	□			
Valve	-	0								Not provided	Refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).	
	-	L								Inlet (gas for atmospheric pressure scale)		
	-	U								Outlet (gas for pressure scale or for negative pressure on the secondary side)		
	-	Z								Special		
Alarm output		0								Not provided		
		E								PAU alarm unit provided		
		Z								Special		
Tapered tube material		-	G							Heat-resistant glass (Standard)	Cannot be specified with gas applications, a valve code of L, and an alarm output code of E or Z	
		-	T							PCTFE		
Gasket material								T		PTFE	Cushion: Chloroprene rubber (CR) or Fluoro rubber	
Process connection		-	R	1						Rc1/8" (Standard)	Pillar fitting (Super type)	
		-	T	A						ø6.35 × t1		
				B						ø6 × t1		
		-	P	A							ø6.35 × t1.2	Pillar fitting (Super 300 type)
				B							ø6 × t1	
	-	Z	Z							Special		

ALARM CONTACT AND OUTPUT

Type	Availability	
Reed switch type alarm unit	General	×
	UL-approved	×
PAU optical alarm unit	○	

For CE approval, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).

STANDARD FLOW RATE TABLE

When the fluid pressure is other than 0 MPa, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).

For tapered tube material code of G		For tapered tube material code of T
Air (0°C, 0 MPa)	Water	Water
	3 to 30 mL/min(Water)	
	5 to 50 mL/min	
50 to 500 mL/min(nor)	10 to 100 mL/min	
0.1 to 1 L/min(nor)	20 to 200 mL/min	
0.2 to 2 L/min(nor)	30 to 300 mL/min	
0.3 to 3 L/min(nor)	50 to 500 mL/min	
0.5 to 5 L/min(nor)	0.1 to 1 L/min	0.1 to 1 L/min
1 to 10 L/min(nor)	0.12 to 1.2 L/min*	0.12 to 1.2 L/min
2 to 20 L/min(nor)	0.4 to 2 L/min	0.4 to 2 L/min

Although other flow rate specifications are available, some flow ranges need to be changed. Contact us for details.

* Ranges of 0.12 to 1.2 L/min or higher are applicable only to models with a valve code of 0 or U.

OTHER AVAILABLE OPTIONS

You can specify the following options:

Double graduations, special graduations, various joint types, etc. For details, refer to "Index & Quick Reference for P Series Purgometers" (TG-S0001).

ORDERING INFORMATION

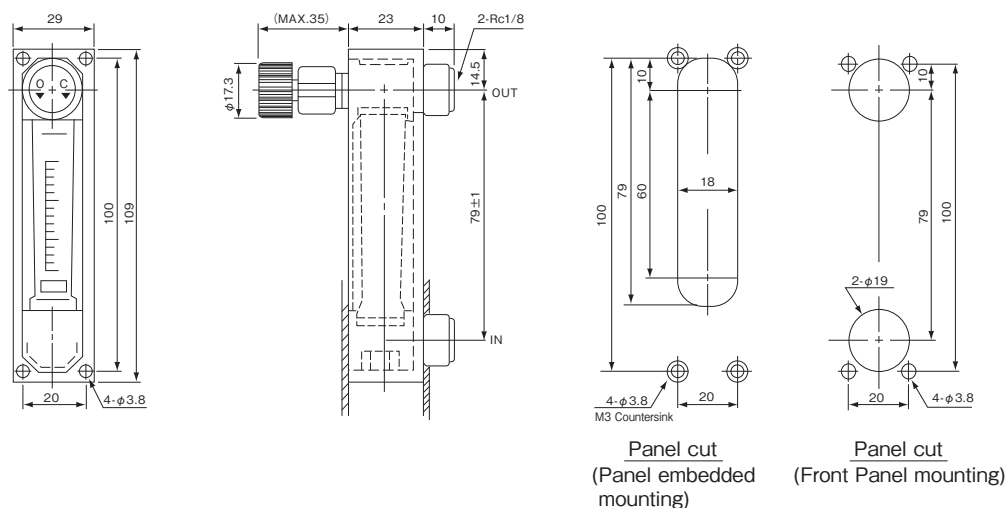
Basic model code	Items to be specified
P-710-□□-□□-□□	① Fluid name - ② Flow range - ③ Press. - ④ Temp. - ⑤ Mounting option - ⑥ Other options
(Select in the model code table.)	(Refer to "Index & Quick Reference for P Series Purgemeters" (TG-S0001).)

DIMENSIONS

Standard type

P-710-U0-GT-R1

- Screw mounting on the panel
- Valve at the outlet



Standard material

Parts name	Standard material	Available material
Support	Polyacetal	PPS resin
Body	○ ETFE (Rc1/8)	PFA (Pillar fitting)
Tapered tube	○ Heat-resistant glass	PCTFE
Gasket	○ PTFE	—
Float *	○ PTFE, Glass, Ruby	—
Nut	PCTFE	—
Valve needle	○ PCTFE	—
Cover	Polycarbonate	—

Parts marked "○" come in contact with the measuring fluid.

* We will select a proper material for your application.

* Specification is subject to change without notice.

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