

FCGP (Intelligent) Pressure Transmitter

Production Profile

FCGP (intelligent) pressure transmitter is with high overvoltage, good stability.

Input range is 0 ~ 0.25kPa, 0 ~ 10kPa, 0 ~ 40kPa.

Use object: liquid, gas, or vapor.

Overpressure limit: measuring range is below 6MPa applied: 0 (absolute pressure) ~ 14MPa Measuring range is below 20MPa applied: 0 (absolute pressure) ~ 32MPa

Measuring range is below 40MPa applied: 0 (absolute pressure) ~ 52MPa transmitter is without being damaged, the flange can withstand pressure 60MPa

Accuracy level: $\pm 0.1\%$ (intelligent), $\pm 0.25\%$, $\pm 0.5\%$

Turndown ratio: 40:1 (smart), 10:1 (analog)

※ Technical indicator

Using object: liquid, gas, steam

Range of measurement: 0 ~ 10kPa ~ 60MPa, absolute pressure: 0 ~ 100kPa ~ 10MPa

Output: 4 ~ 20mA DC

Power supply: 12 ~ 30VDC

Load characteristics: 4 ~ 20mA DC wire load $R \leq 50 (\Omega)$

Temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$; Standard medium temperature: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Shell protection: IP66

Explosion-proof type: Flameproof Exd II CT6; Intrinsically safe Exia II CT6
Needs add outside safety barrier

※ Performance indicators

Accuracy $\pm 0.5\%$

Stability better than $\pm 0.1\%$ FS / a

Response time 0.1 seconds

Temperature influence: In the range of $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$, the variable



quantity less than $\pm 0.18\% / 10\text{ }^{\circ}\text{C}$

Vibration influence: When the frequency of the vibration in any direction is 20-200Hz, the variable quantity is less than $\pm 0.02\%$ FS

Shock influence: After the shocks which is 100G shock 11ms in any direction, the variable quantity is less than $\pm 0.02\%$ FS

Load influence: If the voltage of the terminal which entered in the transmitter is higher than 12V, there is no-load influence.

Position influence: The location of installation does not affect the zero.

※ Structural indicators

Structural materials Shell: Polyurethane paint low copper casting aluminum alloy

"O"-ring seal structure: Viton

Process connection: Standard provide $M20 \times 1.5$ external thread

Electrical connection: Can be drawn from any one outlet, suitable for the cable diameter $\phi 8.5 \sim \phi 10.0$ industrial cable as lead, can be used to seal joints which is leaded, could use universal cable connector PG16 or $M20 \times 1.5$, the other end does not lead should be covered by the end cap

Mode selection diagram

Code			Illustration			
FCCP			Pressure transmitter (intelligent)			
Production type	no/		Analog			
	S		Intelligent type			
Measurement range	0~40		Write numerical value directly (MPa)			
Structure material			Flanged joint	Exhausting/dra ining valve	Isolation diaphragm	Irrigation liquid
	F12		Carbon steel chrome plate	316Lstainless steel	316Lstainless steel	Silicone oil
	F13		Carbon steel chrome plate	Hastelloy C	Hastelloy C	
	F14		Carbon steel chrome plate	Monel	Monel	
	F15		Carbon steel chrome plate	316L stainless steel	Tantalum	
	F22		316L stainless steel	316L stainless steel	316L stainless steel	

	F23		316L stainless steel	316L stainless steel	Hastelloy C
	F24		316L stainless steel	316L stainless steel	Monel
	F25		316L stainless steel	316L stainless steel	Tantalum
	F33		Hastelloy C	Hastelloy C	Hastelloy C
	F35		Hastelloy C	Hastelloy C	Monel
	F44		Monel	Monel	Tantalum
Option	M0		Without display		
	M1		Linear indicator 0-100% scale		
	M2		Digital indication meter		
	B1		Piping out fitting bend holder (2 " pipe)		
	B2		Panel out fitting bend holder		
	B3		Piping outfitting flat holder (2 " pipe)		
	D1		Flange side exhausting/draining valve is on the top		
	D2		Flange side exhausting/draining valve is on the bottom		
	E1		Ordinary cable joint		
	E2		Explosion-proof cable joint		
	G1		Waist shape flange		
	G2		Welded pipe joint		
	d		Flame-proof type EXd II BT5		
	i		Intrinsic safety type EXia II CT5		

