

BR-P826-00EN

FM800

FM800

Smart Valve Positioner



FLOWMAX

FM800 – Smart Valve Positioner



The Flowmaxi FM800 is a smart positioner with a digital display and auto-calibration feature, designed for advanced control needs. With its high-resolution LCD screen, digital diagnostic functions, and HART protocol support, it integrates seamlessly into industrial automation systems.

- 4–20 mA + HART communication protocol (Optional)
- Local interface with LCD display (Position indicator and parameter settings)
- Auto-calibration (Auto Tune) and self-diagnostic functions
- Ex ia / Ex d certification options for hazardous areas
- IP66 protection class, operating range between -30 °C and +85 °C
- Expandable structure with limit switch, position transmitter, and digital output modules

- Local control with LCD and 4 buttons
- Fast and easy calibration, PST and alarm function
- Auto/Manual toggle switch included
- Modularization of internal parts
- IP66 / NEMA4X
- Improving valve control speed by using a large-flow pilot valve
- High vibration and shock resistance

Specifications

- Fast and easy automatic calibration
- Flapper / Nozzle type torque motor
- Integrated bypass valve (A/M switch – Auto/Manual transition)
- HART communication feature (HART 7)
- Limit switch (Mechanical or Proximity type)
- Partial Stroke Test (PST) function
- Alarm function
- Advanced diagnostic features (Optional)
- Reduced copper content (Optional)

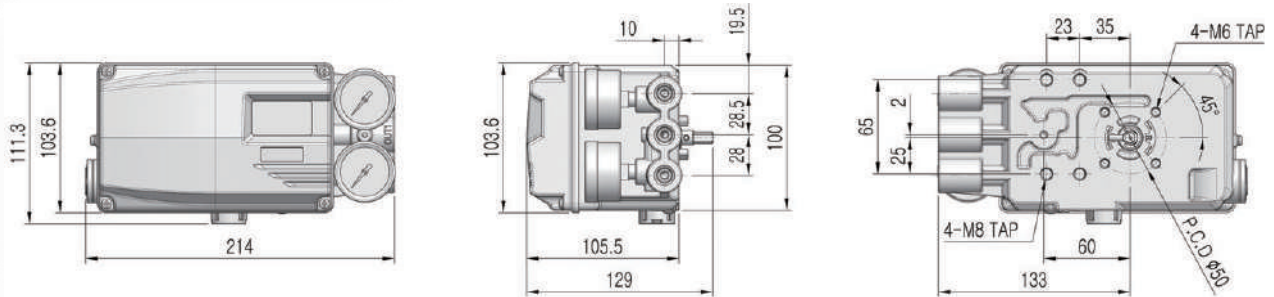


Interface Structure



1-	LCD Display	6-	Position transmitter (Optional) • 2 Wire • 4~20mA DC feedback signal
2-	Buttons 4 Units		
3-	Alarm modules	7-	Limit switch (Optional) • Mechanical type • Proximity type
4-	Input signal (4~20mA DC)		
5-	Grounding		

Dimensions



Flowmaxi FM800 is a long-lasting solution developed to provide maximum performance and reliability in harsh industrial conditions, featuring a durable body structure and modular design. Thanks to its IP66 / NEMA 4X protection class, it operates safely in dusty and humid environments, while maintaining process continuity with high vibration and shock resistance. It optimizes system response time by providing fast and precise valve control through its large-flow pilot valve technology. It simplifies maintenance processes with its Auto/Manual transition feature, PST (Partial Stroke Test), and alarm functions; and adapts flexibly to different process needs thanks to its expandable modular structure.

Teknik Özellikler

Model		FM800	
Input Signal		4~20mA DC	
Impedance		500Ω at 20mA DC	
Supply Pressure		0.14~0.7MPa	
Stroke		Strok: 10~150 mm (Linear), 0~90° (Rotary)	
Air Connection		PT1/4, NPT1/4, G1/4	
Air Connection		PT1/8, NPT1/8	
Cable Entry Connection		G1/2, NPT1/2, M20	
Explosion Protection Type	ATEX, IECEx	Ex ia IIC T5/T6 Ga Ex ia IIIC T112°C/92°C Da	
	CCC, NEPSI, KCS	Ex ia IIC T5/T6 Gb Ex ia IIIC T85°C/100°C Db	
	EAC	1 Ex ia IIC T5/T6 Ga	
	CSA/US		
Enclosure	EN60529	IP66	
	NEMA	Type 4	Type 4x
Overvoltage Protection		Maximum 16KV	
Ambient Temp.	Standard Type	-30°C ~ 85°C	
	Low Temp. Type	-40°C ~ 85°C	
	Explosion Proof	-40°C ~ 60°C (T5) / -40°C ~ 40°C (T6)	
	LCD Operation	-30°C ~ 85°C	
Linearity		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Hysteresis		±0.5% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption		Below 2.3 LPM (Supply Pressure = 0.14 MPa)	
Required Air Quality		Class 3 (ISO 8573-1)	
Flow Capacity		Over 100 LPM (at 0.14 MPa supply)	
Material		Die-cast Aluminum	Stainless Steel 316
Weight		2.6kg	4.2 kg
HART Version		HART 7	
Position Transmitter	Connection	2 Wire	
	Supply Voltage	10~30V DC	
Limit Switch Rating	Mechanical Type	AC 125V, 3A / DC 30V, 2A	
	Proximity Type	DC 8.2V, 8.2A	

Model		FM800									
Option	Standard Type	0									
	Remote Type	2									
	Non-Contact Sensor (NCS) Type	6									
Body Material	Aluminum	0									
	Stainless Steel 316	5									
	Aluminum (Reduced copper content)	1									
Acting Type	Linear Type			L							
	Rotary Type			R							
Explosion Protection Type	Non-Explosion Proof				N						
	ATEX / IECEx / KCS / CCC / EAC				A						
	CSA/US				S						
Connection Type	Cable Entry	Air Connection									
	G1/2	PT1/4			1						
	G1/2	NPT1/4			2						
	NPT1/2	NPT1/4			3						
	M20	NPT1/4			4						
	M20	G1/4			5						
Lever (Linear Type)	10 ~ 70mm					1					
	70 ~ 150mm					2					
	For Tubeless Actuator (30mm)					3					
	For Tubeless Actuator (70mm)					4					
Lever (Rotary Type)	M6 × 39L					1					
	NAMUR					5					
Ambient Temp. Code	-30°C ~ 85°C						S				
	-40°C ~ 85°C						L				
	-60°C ~ 85°C (For EAC)						U				
Communication Options	No Communication								0		
	Position Transmitter (4~20mA)								1		
	HART Communication								2		
	HART Position Transmitter (4~20mA)								3		
	HART + Advanced Diagnostics								4		
	HART with Advanced Diagnostics & Position Transmitter (4~20mA)								5		
Limit Switch Options	None									0	
	Mechanical Type									M	
	Proximity Type (Pepperl & Fuchs)									P	
	With Dome Cover (Without limit switch)									D	



Maximum Reliability in Flow Control!

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