

Pressure Measurement Series

The pressure measurement series includes industrial general pressure measurement, low power consumption pressure measurement and wireless pressure measurement.

- The product has built-in high-performance digital circuits, and is carefully designed for radio frequency, electromagnetic interference, and surge voltage conditions;
- Intelligent digital temperature compensation, solve the sensor zero drift phenomenon, improve sensor accuracy and environmental adaptability;
- Using multiple core coexisting processes to meet the actual needs of customers, suitable for industrial working conditions;
- Wired/battery power supply and wired and wireless transmission modes to meet the needs of various industries.



Pressure Measurement



Product Image			
Product Name	Industrial General Purpose Pressure Sensors	Industrial General Purpose Pressure Transmitter	Industrial General Purpose Pressure Transmitter
Product Number	FST800-201 Universal FST800-202 High pressure type	FST800-211	FST800-211A
Pressure Type	Gauge pressure, Sealing pressure	Gauge pressure, Absolute pressure, Sealing pressure	Gauge pressure, Absolute pressure, Sealing pressure
Standard Range (bar)	Universal: 0~6...600 High pressure type: 0~750...6000	0~6...600	0~6...600
Signal Output	10mV/V~15mV/V	4~20 mA、0.5~4.5VDC 0~5VDC、0~10VDC	4~20 mA、0.5~4.5VDC 0~5VDC、0~10VDC
Supply Voltage	3~10VDC (recommended 5VDC)	9~30VDC、5VDC(0.5~4.5V) 15~30VDC(0~10V)	9~30VDC、5VDC(0.5~4.5V) 15~30VDC(0~10V)
Comprehensive Accuracy	±0.3%FS, ±0.5%FS	±0.3%FS、±0.5%FS	±0.5%FS、±1%FS
Long-term Stability (1 Year)	±0.1%FS	±0.1%FS	±0.2%FS
Temperature Compensation	-20~+70℃	-20~+85℃	-10~+70℃
Operating Temperature	-40~+85℃	-40~+85℃	-40~+85℃
Storage Temperature	-40~+125℃	-40~+125℃	-40~+125℃
Overload Pressure	Universal: 300%FS High pressure type: 150%FS	300%FS	300%FS
Destruction Pressure	Universal: 500%FS High pressure type: 300%FS Ultimate pressure 10000bar	500%FS	500%FS
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	17-4PH	17-4PH	17-4PH
Electrical Connections	Direct lead, Aviation plug M12 connector	Direct lead, Packard connector M12 connector, Hirschmann connector	Direct lead, Packard connector M12 connector, Hirschmann connector
Pressure Port	M20X1.5 G1/4 NPT1/4 High pressure type: M20X1.5 G1/2	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)

Pressure Measurement



Product Image			
Product Name	High Precision Pressure Transmitter	High Pressure Type Pressure Transmitter	Intrinsically Safe Pressure Transmitter
Product Number	FST800-212	FST800-213	FST800-214
Pressure Type	Gauge pressure, Absolute pressure, Sealing pressure	Gauge	Gauge pressure, Absolute pressure, Sealing pressure
Standard Range (bar)	-1...0 0~0.4...600	0~750...6000	-1...0 0~0.1...1000
Signal Output	4~20 mA、0.5~4.5VDC 0~5VDC、0~10VDC	4~ 20 mA、0.5~4.5VDC 0~5VDC、0~10VDC	4~ 20 mA
Supply Voltage	9~30VDC、5VDC (0.5~4.5V) 15~30VDC (0-10V)	9~30VDC、5VDC(0.5~4.5V) 15~30VDC (0-10V)	9~28VDC
Comprehensive Accuracy	±0.1%FS	±0.3%FS、±0.5%FS	±0.3%FS、±0.5%FS
Long-term Stability (1 Year)	±0.1%FS	±0.2%FS	±0.2%FS
Temperature Compensation	-20~+85℃	-20~+85℃	-20~+85℃
Operating Temperature	-40~+85℃	-40~+85℃	-40~+85℃
Storage Temperature	-40~+125℃	-40~+125℃	-40~+125℃
Overload Pressure	150%FS	150%FS	150%FS (range<6bar) 300%FS (range≥6bar)
Destruction Pressure	200%FS	300%FS (Ultimate pressure 10000bar)	300%FS (range<6bar) 500%FS (range≥6bar)
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	304 stainless steel	17-4PH	17-4PH (range≥6bar) 304 or 316 (range<6bar)
Electrical Connections	Direct lead, Packard connector M12 connector, Hirschmann connector	Direct lead, Packard connector M12 connector, Hirschmann connector	Direct lead, M12 connector Hirschmann connector
Pressure Port	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/2 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)
Explosion-proof Grade	—	—	Ex ia IIB T6 Ga

Pressure Measurement



Product Image			
Product Name	Explosion-proof Pressure Transmitter	High and Low Temperature Pressure Transmitter	Pressure and Temperature Integrated Transmitter
Product Number	FST800-215	FST800-216	FST800-217
Pressure Type	Gauge pressure, Absolute pressure, Sealing pressure	Gauge pressure, Absolute pressure, Sealing pressure	Gauge pressure, Absolute pressure, Sealing pressure
Standard Range (bar)	-1...0 0~0.1...1000	0~16...1000	Pressure: 0~6...600 Temperature: -30~125°C
Signal Output	4~20 mA、0.5~4.5VDC 0~5VDC、0~10VDC	4~20 mA、0.5~4.5VDC 0~5VDC、0~10VDC	4~20 mA & Platinum resistance (P/T) 4~20 & 4~20 mA (P/T)
Supply Voltage	9~28VDC、5VDC (0.5~4.5V) 15~28VDC (0-10V)	9~30VDC、5VDC (0.5~4.5V) 15~30VDC (0-10V)	9~30VDC
Comprehensive Accuracy	±0.3%FS、±0.5%FS	±0.3%FS、±0.5%FS	±0.3%FS、±0.5%FS
Long-term Stability (1 Year)	±0.2%FS	±0.1%FS	±0.1%FS
Temperature Compensation	-20~+85°C	-40~+85°C	-20~+85°C
Operating Temperature	-40~+60°C	-40~+125°C Medium temperature -70~+150°C	-40~+85°C
Storage Temperature	-40~+125°C	-40~+125°C	-40~+125°C
Overload Pressure	150%FS (range<6bar) 300%FS (range≥6bar)	200%FS	300%FS
Destruction Pressure	300%FS (range<6bar) 500%FS (range≥6bar)	500%FS	500%FS
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	17-4PH (range≥6bar) 304 or 316 (range<6bar)	17-4PH	17-4PH
Electrical Connections	Direct lead	Direct lead, M12 connector Hirschmann connector	Direct lead, M12 connector
Pressure Port	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)
Explosion-proof Grade	Ex d IIC T6 Gb	—	—

Pressure Measurement



Product Image			
Product Name	Industrial Pressure Sensors	Intrinsically Safe Pressure Transmitter	Explosion-proof Pressure Transmitter
Product Number	FST800-220	FST800-3051TG	FST800-225
Pressure Type	Gauge pressure, Absolute pressure, Sealing pressure	Gauge pressure, Absolute pressure	Gauge pressure, Absolute pressure
Standard Range (bar)	-1...0 0~0.2...600	0~0.1...400	0~0.5...600
Signal Output	4~20 mA	4~20 mA 4~20 mA+HART	4~20 mA 4~20 mA+HART
Supply Voltage	15~30VDC (recommended 24V)	24VDC (10.5~26V)	15~28VDC (recommended 24V)
Comprehensive Accuracy	±0.3%FS、±0.5%FS	±0.25%FS、±0.5%FS	±0.25%FS、±0.5%FS
Long-term Stability (1 Year)	±0.1%FS	±0.1%FS	±0.1%FS
Temperature Compensation	-20~+85°C	-20~+60°C	-20~+60°C
Operating Temperature	-40~+85°C	-20~+60°C	-20~+60°C
Storage Temperature	-40~+125°C	-40~+105°C	-40~+105°C
Overload Pressure	150%FS (range<6bar) 300%FS (range≥6bar)	200%FS	200%FS
Destruction Pressure	300%FS (range<6bar) 500%FS (range≥6bar)	300%FS	300%FS
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	17-4PH (range≥6bar) 304 or 316 (range<6bar)	316L、304、17-4PH	316L、304、17-4PH
Electrical Connections	Waterproof connector	Waterproof connector (Cable entry)	Waterproof connector (Cable entry)
Pressure Port	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 (Others need to be customized)	M20X1.5 (Others need to be customized)
Explosion-proof Grade	—	Ex ia IIC T4 Ga	Ex d IIC T6 Gb

Pressure Measurement



Product Image			
Product Name	Mine Intrinsically Safe Pressure Sensor	Universal Hydraulic Pressure Transmitter	Flush Membrane Type Pressure Transmitters
Product Number	GPD60	FST800-4001	FST800-702
Pressure Type	Gauge pressure, Absolute pressure	Gauge pressure	Gauge pressure, Absolute pressure
Standard Range (bar)	60MPa can be customized	0~100MPa	0~0.4...70
Signal Output	0.5~4.5VDC	4~20mA、0.5~4.5VDC (proportional output)	4~20 mA
Supply Voltage	12VDC	15~30VDC、5VDC	15~30VDC
Comprehensive Accuracy	0.5%	±0.5%FS、±1%FS	±0.5%FS
Long-term Stability (1 Year)	≤ ±0.2%FS	≤ ±0.2%FS	±0.2%FS
Temperature Compensation	-20~+85°C	-10~+70°C	-10~+85°C
Operating Temperature	-40~+60°C	-40~+85°C	-20~+85°C With display: -20~+70°C
Storage Temperature	-40~+85°C	-40~+125°C	-40~+85°C With display: -20~+70°C
Overload Pressure	200%FS	300%FS	150%FS
Destruction Pressure	300%FS	500%FS	200%FS
Shock (11ms)	100g	100g	100g
Protection Class	IP68	IP67	IP65
Material	304 stainless steel	304 stainless steel	316L
Electrical Connections	GPD connector, CT56C-4T	M12, Packard connector AMP-3P, DEUTSCH-4P	Direct lead、Hirschmann connector
Pressure Port	KJ quick interface, DN10	M20X1.5 G1/4 (Others need to be customized)	M20X1.5 G1/2
Explosion-proof Grade	Exib I Mb	—	—

Pressure Measurement



Product Image			
Product Name	Digital Pressure Sensor	Industrial Pressure Sensors	Intelligent Pressure Controller
Product Number	FST800-802	FST500-202	FST500-203
Pressure Type	Gauge pressure, Absolute pressure	Gauge pressure, Absolute pressure	Gauge pressure, Absolute pressure
Standard Range (bar)	0~0.2...600	0~1...600	0~1...600
Signal Output	MODBUS (RS232/RS485)	4~20mA, 0~5V, 0~10VDC, PNP/NPN, relay (normally open/normally closed)	4~20mA, relay(Normally Open/ Normally Closed) ($\pm 2V$)
Supply Voltage	9~30VDC	9~30V/15~30VDC	24VDC/85~260VAC
Comprehensive Accuracy	$\pm 0.3\%FS$ 、 $\pm 0.5\%FS$	$\pm 0.3\%FS$ 、 $\pm 0.5\%FS$	$\pm 0.2\%FS \pm 1$
Long-term Stability (1 Year)	$\pm 0.1\%FS$	$\pm 0.1\%FS$	$\pm 0.1\%FS$
Temperature Compensation	-20~+85°C	-10~+70°C	-10~+70°C
Operating Temperature	-40~+85°C	-20~+70°C	0~+70°C
Storage Temperature	-40~+125°C	-40~+85°C	-40~+85°C
Overload Pressure	150%FS (range<6bar) 300%FS (range $\geq 6bar$)	150%FS (range<6bar) 300%FS (range $\geq 6bar$)	150%FS (range<6bar) 300%FS (range $\geq 6bar$)
Destruction Pressure	300%FS (range<6bar) 500%FS (range $\geq 6bar$)	300%FS (range<6bar) 500%FS (range $\geq 6bar$)	300%FS (range<6bar) 500%FS (range $\geq 6bar$)
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	17-4PH (range $\geq 6bar$) 304 or 316 (range<6bar)	304 stainless steel	17-4PH
Electrical Connections	Direct lead、M12 connector Hirschmann connector	M12 connector	Direct lead
Pressure Port	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)
Explosion-proof Grade	——	——	Ex ia IIC T4 Ga

Pressure Measurement



Product Image			
Product Name	Pressure Sensor	Digital Pressure Transmitter	Sputtering Pressure Transmitter
Product Number	FST800-1500	FST800-3100	FST800-G3200
Measuring Medium	Water, Gas, Oil	Water, Gas, Oil	Water, Gas, Oil
Standard Range (bar)	10、16、25	-1...0 ~ 0.2 ...600	0~3.5...2200
Signal Output	0.5~4.5VDC 4~20mA	4~20mA	4~20mA、0.5~4.5VDC 0~5VDC、0~10VDC
Supply Voltage	9~30VDC 5VDC	15~30VDC	9~30VDC、5VDC(0.5~4.5V) 15~30VDC(0~10V)
Comprehensive Accuracy	±1%FS	±0.5%FS、±1%FS	0.5%FS
Long-term Stability (1 Year)	±0.2%FS	±0.2%FS	±0.2%FS
Temperature Compensation	-10~+70℃	-10~+70℃	-40~+125℃
Operating Temperature	-40~+125℃	-20~+85℃	-40~+125℃
Storage Temperature	-40~+150℃	-40~+105℃	-40~+125℃
Overload Pressure	200%FS	200%FS	200%FS Maximum pressure 4000bar
Destruction Pressure	300%FS	300%FS	500%FS Maximum pressure 4000bar
Shock (11ms)	100g	100g	100g
Protection Class	IP65	IP65	IP65
Material	304 stainless steel	304 stainless steel	17-4PH
Electrical Connections	Packard connector	Hirschmann connector	M12 connector
Pressure Port	M12x1.5	M20X1.5 G1/4 NPT1/4 Optional other threads	G1/4 G3/8 M12X1.5 7/16-20 external thread
Explosion-proof Grade	—	—	—

Pressure Measurement



Product Image		
Product Name	Low Power Digital Pressure Sensor	Low Power Digital Pressure Sensor
Product Number	FST100-1002	FST100-1003
Measuring Medium	Water, Gas, Oil	Water, Gas, Oil
Standard Range (bar)	-1~0~0.2...600 (Other ranges can be customized)	0~0.4~70
Signal Output	3~4.2VDC (For battery power supply)	I ² C
Supply Voltage	≤2.5mA (standby: ≤0.2A)	3~5VDC
Comprehensive Accuracy	±0.3%FS、±0.5%FS	±0.3%FS、±0.5%FS
Long-term Stability (1 Year)	±0.2%FS	±0.2%FS
Temperature Compensation	-20~+85°C	-10~+70°C
Operating Temperature	-40~+85°C	-40~+125°C
Storage Temperature	——	——
Overload Pressure	200%FS	200%FS
Destruction Pressure	300%FS	300%FS
Shock (11ms)	——	——
Protection Class	IP65、IP68	IP65、IP68
Material	304 stainless steel	304 stainless steel
Electrical Connections	Direct lead、Hirschmann connector Watertight fittings	Direct lead、Hirschmann connector Watertight fittings
Pressure Port	M20X1.5 G1/4 NPT1/4 (Others need to be customized)	M20X1.5 G1/4 NPT1/4 (Others need to be customized)
Explosion-proof Grade	——	——

Pressure Measurement



Product Image		
Product Name	Wireless Pressure Sensor	
Product Number	FST100-1101	
Measuring Medium	Water, Gas, Oil	
Measuring Range (bar)	-100KPa-0...20KPa~6MPa、LCD display	
Transfer Method	4G/Lora/NB-IoT LoRa working frequency band: 470MHz/868MHz	
Protocol	MQTT protocol: 4G/NB-IoT LWM2M protocol: NB-IoT LoRaWAN protocol: LoRa (Class A, OTAA activation)	
Power Supply	3.6V battery powered 12~30VDC external power supply	
Current Consumption	4G/NB-IoT Sleep current: $\leq 20\mu A$ Sampling current: $\leq 5mA$ (for 1s) Communication average current: $\leq 60mA$ (lasts 15s) Online current: $\leq 10mA$ (continuously 60s)	LoRaWAN Sleep current $< 5\mu A$ Sampling current $< 5mA$ Sending current $< 140mA$ Receive current $< 20mA$
Sampling Frequency	1-1440 minutes can be set	1 minute 1-720 minutes can be set
Upload Frequency	1-1440 minutes can be set	
Precision	$\pm 0.5\%FS$ 、 $1\%FS$	
Battery Capacity	8000mAh	
Overload Pressure	200%FS	
Ambient Temperature	$-20\sim 60^{\circ}C$ 、 $0\sim 80\%RH$	
Protection Class	IP65	
Material	304, aluminum die-casting	
Transmission Distance	Depending on signal strength	LoRaWAN Open environment: 2000 meters Urban environment: 1000 meters
Pressure Port	M20X1.5 G1/4 (others need to be customized)	