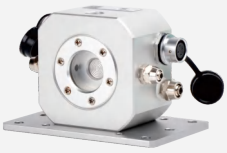
Industrial Pressure Measurement

Firstrate

Product Image				
Product Name	**Industrial General Pressure Sensor**	**Industrial General Pressure Sensor**	**ZQ Type Pressure Sensor**	**ZQ Type Pressure Sensor**
Model	FST800-201 General type FST800-202 High pressure type	FST800-203	ZQ-Y1	ZQ-Y4
Measuring Range	0~750...600bar	-1...0~0.4...70bar	0~6...600bar	0~1...600bar
Output Signal	10mV/V~15mV/V	10mV/V	1~2mV/V	0.5~2mV/V
Product Image				
Product Name	**Low Pressure Pressure Transmitter**	**Industrial General Pressure Transmitter**	**Industrial General Pressure Transmitter**	**High Precision Pressure Transmitter**
Model	FST800-210	FST800-211	FST800-211 A	FST800-212
Measuring Range	-1...6bar	0~6...600bar	0~6...600bar	-1~0~0.4...600bar
Output Signal	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC
Product Image				
Product Name	**High Pressure Pressure Transmitter**	**Intrinsically Safe Pressure Transmitter**	**Explosionproof Pressure Transmitter**	**High and Low Temperature Pressure Transmitter**
Model	FST800-213	FST800-214	FST800-215	FST800-216
Measuring Range	0~750...6000bar	-1...0.1...1000bar	-1...0.1...1000bar	0~16...1000bar
Output Signal	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC

Industrial Pressure Measurement

Product Image				
Product Name	**Pressure and Temperature Integrated Transmitter**	**Pressure and Temperature Integrated Transmitter**	**Industrial Pressure Sensor**	**Intrinsically Safe Pressure Transmitter**
Model	FST800-217	FST800-217D	FST800-220	FST800-3051TG
Measuring Range	Pressure: 0~6...600bar Temperature: -30~125℃	Pressure: 0~6...600bar Temperature: -30~125℃	-1...0~0.2...600bar	0~0.1...400bar
Output Signal	4~20mA&Platinum resistor (P/T) 4~20&4~20mA (P/T)	RS485, RS232	4~20mA	4~20mA+HART protocol optional
Product Image				
Product Name	**Explosionproof Pressure Transmitter**	**Mine Intrinsically Safe Pressure Sensor**	**Union Pressure Sensor**	**Liquid Level Pressure Differential Static Level**
Model	FST800-225	GPD60	FST800-711	FST800-101S
Measuring Range	0~0.5...600bar	60MPa can be customized	0~140MPa	0~1mH2O, 0~20mH2O
Output Signal	4~20mA+HART protocol optional	0.5~4.5VDC	4~20mA	RS485
Product Image				
Product Name	**Universal Hydraulic Pressure Transmitter**	**Pressure Transmitter for Construction Machinery**	**Pressure Transmitter for Construction Machinery**	**Excavator Pressure Transmitter**
Model	FST800-4001	FST800-4002	FST800-401	FST800-402
Measuring Range	0~60MPa	0~60MPa	0~6...600bar	5,50MPa
Output Signal	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	0.5~4.5VDC, 4~20mA
Product Image				
Product Name	**Excavator Pressure Transmitter**	**Pressure Transmitter for Air Conditioning and RefrigerationIndustry**	**Automobile Pressure Sensor**	**Automotive Pressure Transmitter**
Model	FST800-403	FST800-501	FST800-602	FST800-603
Measuring Range	5,50MPa	0~0.5...60bar	150MPa	180~260MPa
Output Signal	0.5~4.5VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	0.5~4.5VDC	0.5~4.5VDC, 0.3~3VDC 1~4.2VDC

Industrial Pressure Measurement

Product Image				
Product Name	**Sanitary Flat Membrane Pressure Transmitter**	**Flush Diaphragm Pressure Transmitter**	**Intrinsically Safe Digital Pressure Sensor**	**Digital Pressure Transmitter**
Model	FST800-701	FST800-702	FST800-801	FST800-802
Measuring Range	0~0.4...25bar	0~0.4...100bar	0~0.2...600bar	0~0.2...600bar
Output Signal	4~20mA	4~20mA	RS485	Rs485, RS232
Product Image				
Product Name	**CAN Bus Pressure Sensor**	**Electronic Pressure Switch**	**Pressure Sensor**	**Pressure Sensor**
Model	FST800-802A	FST500-202	FST800-1000	FST800-1200
Measuring Range	0~0.2...600bar	0~1...600bar	5,7,10,15,20,25,32,50bar	10,16,25bar
Output Signal	CAN	4~20mA, 0~5V, 0~10VDC optional	4~20mA	4~20mA, 0.5~4.5VDC
Product Image				
Product Name	**Pressure Transmitter for Air Conditioning Industry**	**Pressure Transmitter for Air Conditioning Industry**	**Pressure Transmitters**	**Compact Temperature-pressure Integrated Pressure Sensor**
Model	FST800-1300	FST800-1400	FST800-1500	FST800-1700
Measuring Range	0~10...50bar	0~10...50bar	10,16,25bar	Temperature: -30~130℃ Pressure: 101~1025kPa
Output Signal	4~20mA, 0.5~4.5VDC	0.5~4.5VDC	0.5~4.5VDC, 4~20mA	(0.082878xP+5)Vcc/100
Product Image				
Product Name	**Temperature and Pressure Integrated Sensor**	**Industrial General Pressure Transmitter**	**Industrial General Pressure Transmitter**	**Digital Pressure Transmitter**
Model	FST800-1701	FST800-2000	FST800-2100	FST800-3100
Measuring Range	Temperature: -30~130℃ Pressure: 101~1025kPa	0...6~600bar	-100…0kPa~20kPa…60MPa	1...0~0.2…600bar
Output Signal	(0.082878xP+5)Vcc/100	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA, 0.5~4.5VDC 0~5VDC, 0~10VDC	4~20mA

Pressure Measuring Core

Product Image				
Product Name	**Digital Output Diffused Silicon Oil-filled Core**	**Medium and Low Pressure Diffusion Silicone Oil-filled Core**	**Medium and High Pressure Diffusion Silicone Oil-filled Core**	**Flush Membrane Diffused Silicone Oil-filled Core**
Model	FST800-10	FST800-11	FST800-12	FST800-13
Measuring Range	0~40kPa...70MPa	0~40kPa...7MPa	0~10MPa...70MPa	0~40kPa...7MPa
Output Signal	I²C communication: 90%+(2^{23})	Constant current power supply: 70mV Constant voltage power supply: 98~102mV (< 7MPa) 147~153mV(7MPa)	Constant current power supply: 60~150mV Constant voltage: 98~102mV	70mV

Diffrential Pressure Measurement

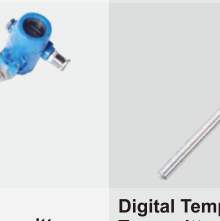
Product Image				
Product Name	**Air Differential Pressure Transmitter**	**Digital Air Differential Pressure Transmitter**	**Micro Differential Pressure Transmitter**	**Monocrystalline Silicon Micro Differential Pressure Transmitter**
Model	FST800-901	FST800-901A	FST800-902	FST800- 3051DR
Measuring Range	0~0.5...100kPa	-100~100kPa	0~10kPa...2MPa	-1...1kPa, -6...6kPa
Output Signal	4~20mA, 0~5VDC, RS485	4-20mA, RS485	4~20mA	4~20mA+HART protocol optional

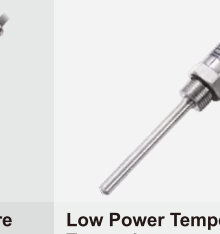
Product Image			
Product Name	**Monocrystalline Silicon Differential Pressure Transmitter**	**Low Power Consumption Monocrystalline Silicon Differential Pressure Transmitter**	**Low Power Consumption Monocrystalline Silicon Differential Pressure and Pressure Integrated Transmitter**
Model	FST800-3051DP	FST100-1004	FST100-1005
Measuring Range	-40~40kPa, -100~100kPa, -200~200kPa, -400~400kPa, -4000~4000kPa	1kPa~4MPa	-40~400kPa(Differential pressure) 0~4MPa (Pressure)
Output Signal	4~20mA+HART protocol	0.25~1.25V, 0.25~2.25V 0.5~2.5V, 10%~90%Vcc, RS485	0.25~1.25V, 0.25~2.25V, 0.5~2.5V, 10%-90%Vcc

Temperature Measurement

Product Image					
Product Name	**Isolated Temperature Sensor**	**Temperature Sensor**	**Thermocouple Temperature Sensor**	**Thermocouple Temperature Sensor**	**Platinum Resistance Temperature Sensor**
Model	FST600-100	FST600-101	FST600-102	FST600-102A	FST600-103
Measuring Range	-50~600℃	-50~600℃ Note: temperature above 120℃, isolation is required	0~1200℃	0~1200℃	-50~250℃
Output Signal	Resistance signal	Resistance signal	mV signal	4~20mA	Resistance signal

Product Image				
Product Name	**Integrated Temperature Transmitter**	**Integrated Isolated Temperature Transmitter**	**Digital Temperature Transmitter**	**Explosionproof Temperature Transmitter**
Model	FST600-202	FST600-203	FST600-204	FST600-205
Measuring Range	-50~120℃	-50~400℃ Note: If the temperature exceeds 120℃, add isolation	-50~400℃ Note: If the temperature exceeds 120℃, add isolation	-50~400℃ Note: If the temperature exceeds 120℃, add isolation
Output Signal	4~20mA,0~5VDC,0~10VDC	4~20mA,0~5VDC,0~10VDC	4~20mA	4~20mA, 0~5VDC 0~10VDC, RS232, RS485

Product Image				
Product Name	**Electronic Temperature Switch**	**Intrinsically Safe Temperature Transmitter**	**Digital Temperature Transmitter**	**CAN Bus Type Temperature Sensor**
Model	FST600-206	FST600-207	FST600-901	FST600-901A
Measuring Range	-50~400℃ Note: If the temperature exceeds 120℃, add isolation	-200~+100℃	-50~400℃ Note: If the temperature exceeds 120℃, add isolation	-50~400℃ Note: If the temperature exceeds 120℃, add isolation
Output Signal	4~20mA, 0~5VDC, 0~10VDC Control output: transistor/relay	4~20mA	Rs485, RS232	CAN

Product Image				
Product Name	**Low Power Temperature Transmitter**	**Low Power Temperature Transmitter**	**Wireless Temperature Sensor**	**Wireless Temperature Sensor**
Model	FST100-6001	FST100-6002	FST100-6101	FST100-6101A
Measuring Range	-50~400℃ Measuring range >120℃, using isolation type	-50~400℃ Measuring range >120℃, using isolation type	-50~400℃, LCD display (optional) Measuring range >120℃, using isolation type	-50~400℃, LCD display Measuring range >120℃, using isolation type
Output Signal	0.25~1.25V,0.25~2.25V 0.5~2.5V,10%~90%Vcc	RS485	4G-CAT1: MQTT protocol NB-IoT: MQTT / LWM2M protocol LoRa: LoRaWAN protocol (Class A, OTAA mode activation)	NB-IoT: MQTT / LWM2M protocol LoRa: LoRaWAN protocol (Class A, OTAA mode activation)

Infrared Temperature Measurement

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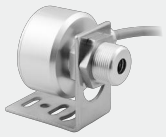
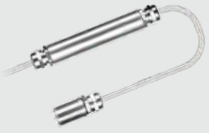
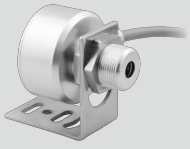
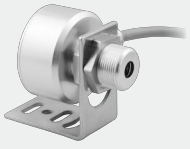
Product Image				
Product Name	**High-precision Infrared Temperature Sensor**	**Online Infrared Temperature Sensor**	**Dot Matrix Infrared Temperature Sensor**	**Dot Matrix Infrared Temperature Sensor**
Model	FST600-400	FST600-400A	FST600-400B	FST600-400C
Measuring Range	-70…0~100…380℃	0…1200℃	-20…300℃	0...100℃
Output Signal	4~20mA, RS485	4~20mA, 0~5V, 0~10V RS485	RS485	RS485
Product Image				
Product Name	**Online Infrared Temperature Sensor**	**High-precision Split Infrared Temperature Sensor**	**Split Dot Matrix Infrared Thermometer Sensor**	**Dual Laser Online Infrared Thermometer**
Model	FST600-400F	FST600-400FT	FST600-400BFT	FST600-402
Measuring Range	28~45℃	-70…0~100…380℃	-20~300℃	-50℃~1800℃ LED display (optional)
Output Signal	RS485	4~20mA, RS485	RS485	4~20mA
Product Image				
Product Name	**Compact Infrared Temperature Sensor**	**High-precision and Compact Infrared Temperature Sensor**	**Compact Infrared Temperature Sensor**	**Shortwave Infrared Temperature Sensor**
Model	FST600-405	FST600-405A	FST600-405FB	FST600-407A
Measuring Range	0~1200℃	-70~380℃ customizable	0~1200℃	400~2000℃ or customizable
Output Signal	4~20mA, RS485	4~20mA, 0~5VDC, 0~10VDC RS485 customizable	4~20mA	4~20mA, RS485
Product Image				
Product Name	**Anti-microwave Infrared Temperature Sensor**	**Short Wave Coaxial Laser Online Infrared Thermometer**	**Two-color Infrared Thermometer**	**Intrinsically Safe Online Infrared Temperature Measurement Sensor**
Model	FST600-408	FST600-407	FST600-410	FST600-4124
Measuring Range	0~100℃, 0~300℃, 0~500℃	300~1400℃, 600~2000℃	250℃~3000℃	0~500℃
Output Signal	4~20mA, RS485	4~20mA, RS485	RS485	4~20mA

Wind Speed and Direction Measurement

Product Image				
Product Name	**Wind Speed Sensor**	**Heated Wind Speed Sensor**	**Heated Wind Speed Sensor**	**High Speed Anti-vibration Wind Speed Sensor**
Model	FST200-201	FST200-201A	FST200-201B	FST200-201C
Measuring Range	0~30m/s, 0~50m/s	0~30m/s, 0~50m/s	0~50m/s	0~30m/s, 0~50m/s
Output Signal	4~20mA, 0~5V, 0~10V Pulse, RS485	4~20mA, 0~5V, 0~10V Pulse, RS485	4~20mA, 0~20mA	4~20mA, 0~5V, 0~10V Pulse, RS485
Product Image				
Product Name	**Wind Speed Sensor**	**Wind Speed Sensor**	**Wind Direction Sensor**	**Heated Wind Sensor**
Model	FST200-1000	FST200-1002	FST200-202	FST200-202A
Measuring Range	0~30m/s, 0~50m/s	0~50m/s	0~360°	0~360°
Output Signal	4~20mA, RS485	4~20mA, RS485	4~20mA, 0~5V, 0~10V RS485	4~20mA, 0~5V, 0~10V RS485

Wind Speed and Direction Measurement

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Product Image				
Product Name	**Heated Wind Sensor**	**Wind Direction Sensor**	**Wind Direction Sensor**	**Pendulum Wind Speed Sensor**
Model	FST200-202B	FST200-2001	FST200-2002	FST200-203
Measuring Range	0~360°	0~360°	0~360°	0~30m/s, 0~50m/s
Output Signal	4~20mA, 0~20mA	4~20mA, 0~5VDC, 0~10VDC RS485	4~20mA, RS485	4~20mA, 0~5VDC, 0~10VDC Pulse, RS485
Product Image				
Product Name	**Wind Speed and Direction Integrated Sensor**	**Heating Type Integrated Wind Speed and Direction Sensor**	**Duct Type Wind Speed Sensor**	**Wireless Wind Speed and Direction Sensor**
Model	FST200-205	FST200-205A	FST200-206	FST200-2116A
Measuring Range	Wind speed: 0~50m/s Wind direction: 16 directions, 0~360°	Wind speed: 0~50m/s Wind direction: 0~360°	0~10m/s, 0~20m/s, 0~30m/s	Wind speed: 0~50m/s Wind direction: 8 directions
Output Signal	4~20mA, RS485	RS485	4~20mA, 0~5VDC, 0~10VDC RS485	4G-CAT1
Product Image				
Product Name	**Ultrasonic Wind Speed and Direction Sensor/Heating Type**	**CAN Bus Type Ultrasonic Wind Speed Wind Direction Sensor**	**Heated Ultrasonic Wind Speed and Direction Sensor (Wind Power Industry)**	**Ultrasonic Wind Speed and Direction Sensor**
Model	FST200-204/FST200-204A	FST200-204C	FST200-207	FST200-208
Measuring Range	Wind speed: 0~60 or 70m/s Wind direction: 0~360°	0~60m/s, 0~360°	0~60m/s	0~50m/s
Output Signal	RS485, 4~20mA, 0~5V	CAN	4~20mA,0~5V,0~10V,RS485	4~20mA, 0~5VDC, 0~10VDC RS485
Product Image				
Product Name	**Digital Wind Speed Control Alarm**	**Digital Wind Speed and Direction Control Alarm Device**		
Model	FST200-211	FST200-221		
Measuring Range	0.5~50m/s	Wind speed: 0~50m/s Wind direction: 0~360°		
Output Signal	4~20mA, 0~5VDC, 0~10VDC Pulse	4~20mA, 0~5VDC, 0~10VDC Pulse		

Magnetic Displacement Measurement

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Product Image				
Product Name	**Pressure-resistant Outer Tube Magnetic Displacement Sensor**	**Waterproof Magnetic Displacement Sensor**	**Magnetostrictive Level Sensor**	**Magnetostrictive Liquid Temperature Integrated Sensor**
Model	FST-RH	FST-RS	FST-LH	FST-LHWD
Measuring Range	0~50...2000mm	0~50...2000mm	50...2000mm	Displacement: 0~50...2000mm Temperature: -50~120℃
Output Signal	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, SSI, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, SSI, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, SSI, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, SSI, RS232, RS485
Product Image				
Product Name	**Explosion-proof Magnetic Displacement Sensor**	**Built-in Magnetic Displacement Sensor in Oil Cylinder**	**Flexible Magnetostrictive Displacement Sensor**	**Compact Magnetic Displacement Sensor**
Model	FST-HPH	FST-MH	FST-RX	FST-LP
Measuring Range	0~50...2000mm	0~50...2000mm	0~50...2500mm	0~50...2000mm customizable
Output Signal	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, SSI, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10VDC/10~0VDC, CANOPEN, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10VDC/10~0VDC, RS485	4~20/20~4mA, 0~5/5~0VDC 0~10/10~0VDC, 0~20mA/ 20~0mA
Product Image				
Product Name	**Mine Explosion-proof Magnetic Displacement Sensor**			
Model	GUC2000			
Measuring Range	0~2000mm			
Output Signal	0.5~4.5VDC			

Industrial Liquid Level Measurement

Product Image				
Product Name	**Submersible Liquid Level Sensor**	**Anti-corrosion Submersible Liquid Level Sensor**	**Capacitive Level Sensor**	**Compact Capacitive Liquid Level Sensor**
Model	FST700-101	FST700-102	FST700-201	FST700-201B
Measuring Range	0~ 1...50m	0~1...30m	0~500...2000mm	0~50...300mm
Output Signal	4~20mA, RS485, 0~5VDC 0~10VDC	4~20mA	4~20mA, 0~5VDC, 0~10VDC	0~5VDC
Product Image				
Product Name	**Capacitive Smart Liquid Level Sensor**	**Capacitive Liquid Temper-ature Integrated Sensor**	**Oil Level Sensor**	**Capacitive Water Level Sensor**
Model	FST700-204	FST700-204A	FST700-205	FST700-207
Measuring Range	0~200...1800mm or customized	Oil level: 400~1800mm or customized Temperature: -30~90℃	0~280...1000mm	0~200...1000mm or customized
Output Signal	4~20mA, 0~5V, 0~10V RS232, RS485	4~20mA	10~180Ω, 0~190Ω, 240~30Ω, others need to be customized	4~20mA, 0~5V
Product Image				
Product Name	**High-precision Capacitive Liquid Level Sensor**	**Capacitive Water Level Switch**		
Model	FST700-208	FST700-302		
Measuring Range	500,700,1000,1500,2000mm	Switch signal		
Output Signal	4~20mA, 0~5V, 0~10V RS485, TTL	PNP, NPN		

Ultrasonic Measurement

Product Image				
Product Name	**Integrated Ultrasonic Level Meter**	**Split Ultrasonic Liquid Level Meter**	**Intelligent Ultrasonic Liquid Level Meter**	**Compact ultrasonic liquid level meter**
Model	FST700-CS01	FST700-CS02	FST700-CS03	FST700-CS08
Measuring Range	5~60m	5~60m	0~5...10m	0.28~7.5m
Output Signal	4~20mA,4~20mA+RS485 4~20mA+RS232	4~20mA, RS485, RS232	RS485, RS485+4~20mA	UART, RS485(PWM, switching valuecan be customized)
Product Image				
Product Name	**Wireless Ultrasonic Level Meter**	**Low range ultrasonic liquid level meter**		
Model	FST700-CS09	FST700-CS10		
Measuring Range	3/6m optional	0.03...2m		
Transfer Method	4G-CAT1	TTL		

Radar Measurement

Product Image				
Product Name	**Intelligent Radar Liquid Level Sensor**	**Intelligent Radar Liquid Level Sensor**	**Intelligent Radar Liquid Level Sensor**	**Intelligent FM Radar Object (Liquid) Level Meter**
Model	FSTRD-901	FSTRD-902	FSTRD-904	FSTRD-903
Measuring Range	20m	30m	70m	120m
Output Signal	4~20mA, HART, RS485	4~20mA, HART, RS485	4~20mA, HART, RS485	4~20mA, HART(2 wires/4 wires) RS485

Product Image					
Product Name	**Intelligent FM Radar Object (Liquid) Level Meter**	**Intelligent FM Radar Object (Liquid) Level Meter**	**Intelligent FM Radar Object (Liquid) Level Meter**	**Intelligent FM Radar Object (Liquid) Level Meter**	**Smart Radar Water Level Gauge**
Model	FSTRD-903C	FSTRD-903F	FSTRD-903GF	FSTRD-903GG	FSTRD-905&FSTRD-905A
Measuring Range	120m	120m	120m	120m	0.1~65m
Output Signal	4~20mA, HART (2 wires/ 4 wires), RS485	4~20mA, HART (2 wires/ 4 wires), RS485	4~20mA, HART (2 wires/ 4 wires), RS485	4~20mA, HART (2 wires/ 4 wires), RS485	RS485

Flow Measurement

Product Image					
Product Name	**Intelligent Electroma-gnetic Flowmeter**	**Sanitary Electroma-gnetic Flowmeter**	**Intelligent Electroma-gnetic Flowmeter**	**Vortex Flowmeter**	**Turbine Flowmeter**
Model	FST900-101	FST900-102	FST900-103	FST900-201	FST900-301
Measuring Range	Conductive liquid medium 0.03m/s~15m/s	Conductive liquid medium 0.03m/s~15m/s	Conductive liquid medium 0.03m/s~15m/s	Liquid: 0.4~7m/s Gas: 4~60m/s Steam: 5~70m/s	Liquid 2.5~25m^3/h (DN25) 130~2500(DN200)
Output Signal	Rs485, 4~20mA, Pulse HART communication protocol	RS485, 4~20mA, Pulse HART communication protocol	RS485, 4~20mA, Pulse HART communication protocol	Pulse Standard current 4~20mA	RS485, 4-20mA, Pulse

Load Cell

Product Image					
Product Name	**Column Load Cell**	**Column Load Cell**	**Digital Display Column Load Cell**	**Cantilever Beam Load Cell**	**Cantilever Beam Load Cell**
Model	BHR-ZSA	BHR-ZSB	BHR-ZSX	SB-A	SB-B
Measuring Range	1~100 (t)	5~200(t)	5~70(kN)	0.5~200(kN)	2~100(kN)
Output Signal	1.5~2.0mV/V	2.0mV/V	2.0mV/V	2.0mV/V	2.0mV/V
Product Image					
Product Name	**Bellows Load Cell**	**Pivot Pin Load Cell**	**Pivot Pin Load Cell**	**Tension and Compre-ssion Load Cell**	**Pull Type Load Cell**
Model	SB-BW	QS-XZA	QS-XZB	BLR-SQA	BLR-DGA
Measuring Range	0.1~10(kN)	300(kN)	10~100(kN)	0.05~200(kN)	20~2000(kN)
Output Signal	2.0mV/V	Pulse High level: 2.0mV/V	1.5mV/V	2.mV/V	1.5, 2.0mV/V
Product Image					
Product Name	**Column Type External Thread Tension Sensor**	**Pull Type Load Cell**	**Pull Type Load Cell**	**Load Cell**	**Spoke Load Cell**
Model	BLR-DGB	BLR-ZSB	BLR-ZSS	GZB-2C	WL-B
Measuring Range	100~2000(kN)	1.5~10(kN)	1~200(kN)	30N~1.5(kN)	3~1000(kN)
Output Signal	1.5, 2.0mV/V	1.5, 2.0mV/V	1.5, 2.0mV/V	1.5, 2.0mV/V	2.0mV/V
Product Image					
Product Name	**Spoke Load Cell**	**Spoke Load Cell**	**Spoke Load Cell**	**Spoke Load Cell**	**Intelligent Material Level Sensor**
Model	WL-C	WL-D	WL-E	WL-F	FST100-LWJC-02
Measuring Range	200(kN)	10(kN)	10~150(t)	5~3000(kN)	0~200Kg
Output Signal	2.0mV/V	2.0mV/V	2.85mV/V	2.0mV/V	1mV/V

Display and Control

Product Image					
Product Name	**Digital Display Controller**	**Peak Display Controller**	**Industrial General Display Controller**	**Economical Display Controller**	**Liquid Level Display Controller**
Model	FST500-301	FST500-302	FST500-401	FST500-402	FST500-403
Display Method	4-digit LED display	Dual 4-digit LED display (Main display + Secondary display)	Dual 4-digit LED display (Main display + Secondary display)	4-digit LED display	4-digit LED measurement value display +0~100% measured value light bar display
Output Signal	Thermocouple, thermal resistor,standard current and voltage	Thermocouple, thermal resistor,standard current and voltage	Analog universal input	Analog universal input	Thermocouple, thermal resistor,standard current and voltage
Product Image					
Product Name	**Dual Channel Display Controller**	**Force Value Display Controller**	**Economical Force Value Display Controller**	**Handheld Dynamometer**	**Intelligent Material Level Collection Terminal**
Model	FST500-404	FST500-502	FST500-503	FST500-3000	FST100-ZNLWY
Display Method	Dual 4-digit LED display	6-digit LED display	5-digit LED display	LCD monochrome display	4 digit LED
Output Signal	Dual channel: thermocouple, thermal resistor Standard current and voltage	Proportional measurement, 4-wire force value transmission Sensor, adaptable to 0.4~4.0mV/V	Proportional measurement, 4-wire force value transmission Sensor, adaptable to 0.8~2.5mV/V	mV, V, 4-20mA, RTD RS485	4-bit pressure sensor 1 way temperature sensor
Product Image					
Product Name	**Single Display Controller**	**Dual Display Controller**	**Dual Channel Display Controller**	**Four Channel Display Controller**	**Eight Channel Display Controller**
Model	FST500-1000	FST500-1100	FST500-1200	FST500-1300	FST500-1700
Display Method	4 digit LED	Dual 4-digit LED display window	Dual 4-digit LED display window	1999-9999 measurement value display, 4-channel signal display, LED working status display	1999-9999 measurement value display, 8-channel signal display, LED working status display
Output Signal	23 input types Setting selection	23 input types Setting selection	23 input types Setting selection	23 input types Setting selection	23 input types Setting selection
Product Image					
Product Name	**Single Display Liquid Level Controller**	**Conventional Liquid Level Control Box**	**Compact Liquid Level Control Box**	**Dual Channel Liquid Level Control Box**	**Color Paperless Recorder**
Model	FST500-2000	FST500-2000A	FST500-2000B	FST500-2100A	FST500-602A
Display Method	4 digit LED	4-digit LED+0~100% light bar display	4-digit LED+0~100% light bar display	4-digit LED+0~100% light bar display	7-inch color LCD screen
Output Signal	23 input types Setting selection	4~20mA (with one alarm signal output)	4~20mA (with one alarm signal output)	4~20mA (with one alarm signal output)	36 analog universal inputs

Firstrate | Product Introduction

IoT Sensor Series

- IoT Pressure Measurement
- IoT Liquid Level Measurement
- Environmental Monitoring
- Water Quality Monitoring
- Flooding Monitoring
- Inclination Monitoring
- Gas Monitoring
- Communication Transmission

Firstrate | Application Area

IoT Sensor Application Areas

Smart Environment

Smart Agriculture

Smart Water

Smart Property

Smart Manhole Cover

Smart Fire Protection

Smart Pipe Gallery

Smart Industry

IoT Pressure Measurement

Product Image					
Product Name	**Low Power Consumption Pressure Transmitter**	**Low Power Digital Pressure Sensor**	**Low Power Digital Pressure Sensor**	**Low Power Consumption Temperature and Pressure Integrated Transmitter**	**Intrinsically Safe Low Power Pressure Sensor**
Model	FST100-1001	FST100-1002	FST100-1003	FST100-1007	FST100-1114
Measuring Range	0~0.1...60bar (Other ranges can be customized)	-1~0~0.2...600bar (Other ranges can be customized)	0~0.4...70bar	Pressure:0~...20MPa can be customized Temperature:-20~85℃	0~0.1...600bar
Output Signal	0.25~1.25V, 0.25~2.25V 0.5~2.5V, 10%~90%Vcc	RS485	IIC	RS485	0.25~1.25V, 0.25~2.25V 0.5~2.5V, 10%~90%Vcc
Product Image					
Product Name	**Wireless Pressure Sensor**	**Wireless Pressure Sensor**	**Compact Wireless Pressure Sensor**	**Intrinsically Safe Wireless Pressure Sensor**	**Explosionproof Wireless Pressure Sensor**
Model	FST100-1101	FST100-1101A	FST100-1102	FST100-1124	FST100-1115
Measuring Range	-100kPa-0...20kPa~ 6MPa	0~0.5,1,2,2.5,5,10,16, 25...60MPa	1-100MPa (optional, Default is 30MPa), Accuracy±1%FS	-100kPa-0...20kPa~60 MPa, LCD display	-100kPa-0...20kPa~60 MPa, LCD display
Output Signal	4G-CAT1, LoRa, NB-IoT	NB-IoT	NB-IoT(800/900/1800), LoRaWAN	LoRa, NB-IoT	LoRa, NB-IoT, 4G-CAT1

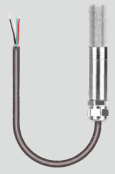
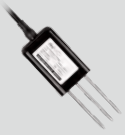
IoT Liquid Level Measurement

Product Image				
Product Name	**Low Power Consumption Input Liquid Level Transmitter**	**Low Power Input Liquid Level Sensor**	**Low Power Consumption Liquid Temperature Integrated Transmitter**	**Intrinsically Safe Low Power Input Liquid Level Sensor**
Model	FST100-7001	FST100-7002	FST100-7003	FST100-7114
Measuring Range	0~1...50m	0~1...50m	Liquid level: 0~1...50m, Temperature: -10~85℃	0~0.2...50m
Output Signal	4~20mA, 0.25~1.25V 0.25~2.25V, 0.5~2.5V 10%~90%Vcc	RS485, IIC	RS485	0.25~1.25V, 0.25~2.25V 0.5~2.5V, 10%~90%Vcc
Product Image				
Product Name	**Wireless Submersible Level Sensor**	**Wireless Submersible Level Sensor**	**High-end Protective Wireless Submersible Liquid Level Sensor**	
Model	FST100-7101	FST100-7101A	FST100-7101B	
Measuring Range	0~3,5,10,15,20,25,30...60m	0~1...50m	0~50m optional	
Output Signal	LoRa, NB-IoT, 4G-CAT1	4G-CAT1, LoRa, NB-IoT	4G-CAT1	

Environmental Monitoring

Product Image				
Product Name	**Temperature and Humidity Sensor**	**Digital Temperature and Humidity Recorder**	**LCD Temperature and Humidity Recorder**	**LCD Temperature and Humidity Sensor**
Model	FST100-2001	FST100-2001J	FST100-2001D	FST100-2001G
Measuring Range	Temperature: -40~+80℃ Humidity: 0%~100%RH	Temperature: -40~+80℃ Humidity: 0%~100%RH	Built-in probe: 0~100%RH, -10~70℃; External probe: 0~100%RH,-40~80℃	Temperature: -30~+80℃ Humidity: 0%~95%RH
Output Signal	4~20mA, RS485, 0~5V 0~10V	RS485	Rs485, NB-IoT, 4G-CAT1 Ethernet	RS485
Product Image				
Product Name	**Explosion-proof Temperature and Humidity Sensor**	**Duct Type Temperature and Humidity Sensor**	**Economical Temperature and Humidity Sensor**	**Compact Temperature and Humidity Sensor**
Model	FST100-2001EX	FST100-2001E	FST100-2001F	FST100-2001H
Measuring Range	Temperature: -40~+80℃ Humidity: 0%~100%RH	Temperature: -40~+80℃ Humidity: 0%~100%RH	Temperature: -40~+60℃ Humidity: 0%~80%RH	Temperature: -40~+80℃ Humidity: 0%~100%RH
Output Signal	4~20mA, RS485, 0~5V 0~10V	4~20mA, RS485, 0~5V 0~10V	RS485	RS485, I²C communication: 10~90%(2^23)

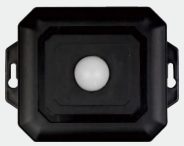
Environmental Monitoring

Product Image				
Product Name	**High Temperature Waterproof Temperature and Humidity Sensor**	**Wireless Temperature and Humidity Sensor**	**Barometric Pressure Sensor**	**Illuminance Transmitter**
Model	FST100-2001I	FST100-2101	FST100-2002	FST100-2003
Measuring Range	Temperature:-40~+85℃ Humidity: 0%~100%RH	Temperature: -20~+70℃ Humidity: 0%~100%RH	Air pressure: 30~120kPa	0~65535Lux, 0~200,000 Lux
Output Signal	RS485, I²C	LoRa, NB-IoT	4~20mA, RS485, 0~10VDC	4~20mA,RS485,0~5V,0~10V
Product Image				
Product Name	**Illuminance Transmitter (Metal Type)**	**PM2.5/PM10 Air Quality Sensor**	**PM100 Air Quality Sensor**	**Soil Temperature and Humidity Sensor**
Model	FST100-2003A	FST100-2005	FST100-PM100	FST100-2006
Measuring Range	0~200,000 Lux	PM2.5/PM10: 0~1000ug/m³,0~1000ug/m³	0~20mg/m³	Temperature: -40~85℃ Humidity: 0%RH~100%
Output Signal	4~20mA,RS485,0~5V,0~10V	4~20mA, RS485, 0~5V 0~10V	4~20mA, RS485	RS485, 4~20mA
Product Image				
Product Name	**Soil Temperature and Humidity Conductivity Sensor**	**Soil PH Sensor**	**Soil Conductivity Sensor**	**Soil Five-in-one Sensor**
Model	FST100-2006A	FST100-2006B	FST100-2006C	FST100-2006D
Measuring Range	Temperature: -40~85℃ Humidity: 0%RH~100%	3-9PH	0~20mS/cm	Conductivity: 0~5000us/cm Moisture:0~100% Temperature: -40℃~85℃ (can be customized) Salinity:2750mg/kg Soil TDS:2500mg/kg
Output Signal	RS485, 4~20mA	RS485	RS485, 4~20mA	RS485, 4~20mA
Product Image				
Product Name	**Soil Nitrogen, Phosphorus and Potassium Sensor**	**Rain and Snow Sensor**	**Noise Sensor**	**Piezoelectric Rain Sensor**
Model	FST100-2006E	FST100-2007	FST100-2010	FST100-2008A
Measuring Range	0~1999mg/kg		Measuring range: 30~120dB Frequency: 20Hz~12.5kHz	Cumulative rainfall: 2000mm~6000mm (can be set)
Output Signal	RS485	RS485, switching output	RS485, 4~20mA	RS485

Environmental Monitoring

Product Image				
Product Name	**Tipping Bucket Rain Gauge**	**Stainless Steel Double Tipping Bucket Rain Gauge**	**Polycarbon Single Tipping Bucket Rain Gauge**	**Photosynthetically Active Radiation Sensor**
Model	FST100-2008	FST100-2008B	FST100-2008C	FST100-2014
Measuring Range	Rain intensity range: ≤4mm/min (The maximum rain intensity allowed is 8mm/min)	Rain intensity range: 0.01mm~4mm/min	Rain intensity range: 0~4mm/min (maximum 8mm/min)	0～2500umol/m²·s Spectral range: 400~700nm
Output Signal	RS485, Pulse	RS485, Pulse	RS485, Pulse	RS485
Product Image				
Product Name	**Photoelectric Total Solar Radiation Sensor**	**Thermoelectric Total Solar Radiation Sensor**	**UV Sensor**	**UV Sensor (Metal Type)**
Model	FST100-2015	FST100-2015A	FST100-UV	FST100-UV-A
Measuring Range	0~1800W/m² Spectral range: 300~1100nm	0~2000W/m² Spectral range: 0.3~3μm	0~15mW/cm² Spectral range: 320~410nm	UV intensity range 0~15mW/cm²
Output Signal	RS485, 4~20mA, 0~5V, 0~10V	RS485, 4~20mA, 0~5V, 0~10V	NB-IoT, LoRaWAN, 4G-CAT1	RS485
Product Image				
Product Name	**Multi-plate Solar Radiation Shield**	**Four-in-one Environmental Monitoring Sensor**	**Temperature, Humidity and TVOC Environmental Monitoring Sensors**	**Seven-in-one Environmental Monitoring Sensor**
Model	FST100-2201	FST100-2202	FST100-2202B	FST100-2203A
Measuring Range	(See product specifications for details)	(See product specifications for details)	-20℃~80℃,0~100%RH TVOC:0~60000ppb	(See product specifications for details)
Output Signal	RS485	RS485	RS485	RS485
Product Image				
Product Name	**Multifunctional Environmental Monitor**	**Indoor Comprehensive Environmental Monitoring Terminal**	**Integrated Meteorological Environment Monitoring Sensor**	**Integrated Atmospheric Environmental Pollutants Monitoring Sensors**
Model	FST100-2203	FST100-2204	FST200-2201	FST200-2202
Measuring Range	(See product specifications for details)	(See product specifications for details)	(See product specifications for details)	(See product specifications for details)
Output Signal	RS485	RS485, 4G-CAT1	RS485	RS485

Environmental Monitoring

Product Image				
Product Name	**Wireless Barometric Pressure Sensor**	**Wireless Light Sensor**	**Wireless Air Quality Sensor**	**Wireless Three-in-one Envir-on mental Monitoring Sensor**
Model	FST100-2102	FST100-2103	FST100-2105	FST100-2114
Measuring Range	Air pressure: 30~120kPa	0~65535Lux,0~200,000 Lux	PM2.5/PM10,0~500ug/m³, 0~1000ug/m³	Atmospheric pressure, temperature and humidity three-in-one
Output Signal	LoRa, NB-IoT	LoRa, NB-IoT	LoRa, NB-IoT	LoRa, NB-IoT
Product Image				
Product Name	**Wireless Multi-plate Solar Radiation Shield**	**Wireless All-in-one Ultrasound Environmental Monitoring Sensors**	**Micro Ecological Factor Sensor**	
Model	FST100-2115	FST100-2116	FST100-STYZ-01	
Measuring Range	Customizable combination options: temperature and humidity,atmospheric pressure, illumination, CO2, air quality, environmental noise,etc.	Customizable combination options: temperature and humidity,atmospheric pressure, illumination, CO2, air quality, wind speed and direction,etc.	Temperature:-40℃~80℃ Relative humidity: 0~100%RH Illumination: 0~200,000 Lux Soil temperature: -50~+100℃ Soil moisture:0~100%RH	
Output Signal	LoRa, NB-IoT	LoRa, NB-IoT, 4G-CAT1	RS485	
Product Image	Pole stand	Tripod type		
Product Name	**Smart Environment Monitoring Weather Station**			
Model	FST100-QXZ-01			
Measuring Range	**Recommended package plan:** Small weather monitoring station, smart agricultural environment monitoring station, dust environment monitoring station, scenic area environment monitoring station, photovoltaic power generation weather station, ultrasonic environmental monitoring station **Optional plan:** Meteorological environment monitoring (wind speed, wind direction, temperature, humidity, atmospheric pressure, illumination, PM2.5, PM10, noise, rainfall, rain and snow, carbon monoxide, carbon dioxide, total solar radiation, ultraviolet light), pollutant environment monitoring (nitric oxide, nitrogen dioxide, sulfur dioxide, oxygen, ozone, hydrogen, methane, ammonia, hydrogen sulfide), soil environment monitoring (soil temperature, soil moisture, soil conductivity, soil PH, soil moisture, soil salinity, soil nitrogen, phosphorus and potassium, Soil TDS),Planting environment monitoring (photosynthetically active radiation)			
Output Signal	RS485:MODBUS RTU, 4G-CAT1:MQTT, NB-IoT:LWM2M			

Water Quality Monitoring

Product Image				
Product Name	**PH Sensor**	**Smart PH Sensor**	**Smart PH Sensor**	**ORP Sensor**
Model	FST100-PH101	FST100-PH104	FST100-PH104A	FST100-ORP101
Measuring Range	PH: 0~14PH	Temperature: 0~80°C, 0~ 60°C PH: 0~14PH	0~14PH	-2000~2000mV
Output Signal		4~20mA (Adjustable/ three-wire system)	RS485	
Product Image				
Product Name	**Smart ORP Sensor**	**Smart ORP Sensor**	**EC Sensor**	**Smart EC Sensor**
Model	FST100-ORP102	FST100-ORP102A	FST100-EC101	FST100-EC103
Measuring Range	-200~2000mV	-1500~+1500mV	1~2000uS/cm	0~2000uS/cm
Output Signal	4~20mA (adjustable/3-wire)	RS485		4~20mA (adjustable/three-wire system)
Product Image				
Product Name	**Smart EC Sensor**	**Dissolved Oxygen Sensor**	**Smart Dissolved Oxygen Sensor**	**Smart Dissolved Oxygen Sensor (Fluorescence Method)**
Model	FST100-EC103A	FST100-DO101	FST100-DO103	FST100-DO201
Measuring Range	0~20,0~200,0~5000uS/cm, 0~200mS/cm	0~40mg/L(ppm)	0~20mg/L	Dissolved oxygen: 0~20mg/L 0~200% saturation
Output Signal	RS485		4~20mA, RS485	RS485
Product Image				
Product Name	**Smart Dissolved Oxygen Sensor (Fluorescence Method)**	**Smart Dissolved Oxygen Sensor (Fluorescence Method)**	**Residual Chlorine Sensor**	**Smart Residual Chlorine Sensor**
Model	FST100-DO202	FST100-DO202A	FST100-YL101	FST100-YL105
Measuring Range	0~20mg/L (0~200% saturation)	0~20mg/L (0~200% saturation,25℃)	0~20mg/L(ppm)	0~20mg/L
Output Signal	4~20mA, RS485	RS485		4~20mA, RS485

Water Quality Monitoring

Product Image				
Product Name	**Smart Turbidity Sensor (Laser)**	**Smart Turbidity Sensor**	**Smart Turbidity Sensor (Infrared)**	**Smart Ammonia Nitrogen Sensor**
Model	FST100-ZD101	FST100-ZD102	FST100-ZD102A	FST100-AT101
Measuring Range	0...20NTU,0...60°C	0...4000NTU 0...4000mg/L	0~20,0~100,0~1000, 0~4000NTU	0~18000ppm
Output Signal	RS485, 4~20mA (optional)	RS485, 4~20mA	RS485	4~20mA(adjustable/3-wire)
Product Image				
Product Name	**Smart Ammonia Nitrogen Sensor**	**Smart COD Sensor**	**Smart Chemical Oxygen Demand Sensor**	**PH/ORP Controller**
Model	FST100-AT101A	FST100-COD102	FST100-COD102A	FST100-PH100
Measuring Range	0~100mg/L 0~1000mg/L	0~500mg/L equiv.KHP 0...200%	COD:0~200/0~500mg/L equiv.KHP Turbidity:0~100/0~200NTU	PH: -2~16PH ORP: -2000~2000 mV Temperature: -10℃~120℃
Output Signal	RS485	RS485	RS485	4~20mA (adjustable) Current accuracy:1%FS Output load: < 600Ω
Product Image				
Product Name	**Dissolved Oxygen Controller**	**Residual Chlorine Controller**	**Conductivity Controller**	
Model	FST100-DO100	FST100-YL100	FST100-EC100	
Measuring Range	Dissolved oxygen: 0~400%, 0~40mg/L Temperature: -10~130℃	Residual chlorine: 0...20mg/L Temperature: -10~130℃	EC: 0...20mS/cm Temperature: 0~100℃	
Output Signal	Two-way isolation: 4~20mA Current accuracy: ±0.05mA Output load: < 500Ω	Two-way isolation: 4~20mA Current accuracy: ±0.05mA Output load: < 500Ω	4~20mA (adjustable) Current accuracy: 1%FS Output load: < 600Ω	

Water Quality Monitoring

Product Image		
Product Name	**Multi-parameter Water Quality Online Analyzer**	**Multi-parameter Water Quality Online Analyzer**
Model	FST100-SZXT-01	FST100-SZXT-02
Measuring Range	PH: 0~14PH ORP: ±2000mV Residual chlorine: 0~20mg/L Temperature: 0℃~100℃ Turbidity: 0~100NTU / 0~4000NTU Conductivity: 1~2000uS/cm Dissolved oxygen: 0~40mg/L	PH: 0~14PH ORP: ±2000mV Residual chlorine: 0~20mg/L Temperature: 0℃~100℃ Turbidity: 0~100NTU / 0~4000NTU Conductivity: 1~2000uS/cm Dissolved oxygen: 0~40mg/L
Transfer Method	4G-CAT1, NB-IoT	4G-CAT1, NB-IoT
Product Image		
Product Name	**Single Parameter Water Quality Online Analyzer**	**Float Water Quality Online Analyzer**
Model	FST100-SZXT-03	FST100-SZXT-04
Measuring Range	PH: 0~14PH ORP: ±2000mV Residual chlorine: 0~20mg/L Temperature: 0℃~100℃ Turbidity: 0~100NTU / 0~4000NTU Conductivity: 1~2000uS/cm Dissolved oxygen: 0~40mg/L	Turbidity: 0~1000NTU Dissolved oxygen: 0~20mg/L PH: 0~14PH Conductivity: 0~5000us/cm Residual chlorine: 0~20mg/L
Transfer Method	RS485, 4G-CAT1	RS485

Flooding Monitoring

Product Image				
Product Name	**Wired Water Immersion Sensor**	**Water Immersion Switch Sensor**	**Wireless Water Immersion Sensor**	**Underground Water Level Monitoring Sensor**
Model	FST100-2113A	FST100-2113B	FST100-2113	FST100-2113C
Measuring Range	Minimum water depth ≤ 2mm	Minimum water depth ≤ 2mm	Minimum water depth ≤ 2mm	20~2000mm
Transfer Method	RS485	NPN,PNP(PNPislow-voltage flatoutput,NPNislowlevel output)	LoRaWAN, NB-IoT 4G-CAT1	LoRa

Inclination Monitoring

Product Image				
Product Name	**Tilt Sensor**	**High-precision Tilt Sensor**		
Model	FST100-401	FST100-402		
Frequency Range	±90°	±90°		
Transfer Method	RS485	RS485, CAN		

Gas Monitoring

Firstrate

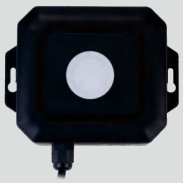
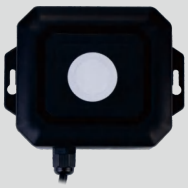
Product Image				
Product Name	**Carbon Dioxide Sensor**	**Oxygen Sensor**	**Ammonia Sensor**	**Pump Ammonia Sensor**
Model	FST100-2004	FST100-G102A	FST100-G103A	FST100-G103A-BX
Measuring Range	CO_2 concentration: 0~2000ppm,0~5000ppm	0~30%	0~100ppm, 0~1000ppm 0~5000ppm	0~100ppm
Output Signal	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	RS485
Product Image				
Product Name	**Nitric Oxide Sensor**	**Nitrogen Dioxide Sensor**	**Sulfur Dioxide Sensor**	**Hydrogen Sulfide Sensor**
Model	FST100-G104A	FST100-G105A	FST100-G106A	FST100-G107A
Measuring Range	0~250ppm, 0~2000ppm	0~20ppm, 0~2000ppm	0~20ppm, 0~100ppm 0~2000ppm	0~100ppm, 0~1000ppm
Output Signal	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485
Product Image				
Product Name	**Combustible Gas Sensor**	**Methane Sensor**	**Carbon Monoxide Sensor**	**Hydrogen Sensor**
Model	FST100-G108A	FST100-G109A	FST100-2012	FST100-G110A
Measuring Range	0~100%LEL	0~100%LEL	0-500ppm, 0-1000ppm	0~1000ppm, 0~4000ppm
Output Signal	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485
Product Image				
Product Name	**Ozone Sensor**	**Formaldehyde Sensor**	**Sulfur Hexafluoride Sensor**	**TVOC Sensor**
Model	FST100-G111A	FST100-G112A	FST100-G117A	FST100-TVOC
Measuring Range	Analog quantity: 0~20ppm RS485: 0~10ppm,0~100ppm	0~1ppm (high precision anti-interference type) 0-2ppm	0~1000ppm (can be customized)	Measuring range: 0~6000ppb eCO2 (equivalent CO2): 400~60000ppm
Output Signal	4~20mA,0~5V,0~10V,RS485	4~20mA,0~5V,0~10V,RS485	4~20mA,RS485	4~20mA,0~5V,0~10V,RS485

Gas Monitoring

Firstrate

Product Image					
Product Name	**Explosion-proof Carbon Dioxide Sensor**	**Explosion-proof Oxygen Sensor**	**Explosion-proof Oxygen Sensor**	**Explosion-proof Ammonia Sensor**	**Explosion-proof Nitric Oxide Sensor**
Model	FST100-G101	FST100-G102	FST100-G102-S	FST100-G103	FST100-G104
Measuring Range	5000ppm	0~30%	0~30%	0~100ppm,0~500ppm	0~250ppm,0~2000ppm
Output Signal	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485
Product Image					
Product Name	**Explosion-proof Nitrogen Dioxide Sensor**	**Explosion-proof Sulfur Dioxide Sensor**	**Explosion-proof Hydrogen Sulfide Sensor**	**Explosion-proof Hydrogen Sulfide Sensor**	**Explosion-proof Combustible Gas Sensor**
Model	FST100-G105	FST100-G106	FST100-G107	FST100-G107-S	FST100-G108
Measuring Range	0~20/0~100ppm 0~2000ppm	0~20/0~100ppm 0~2000ppm	0~100/0~1000ppm	0~100/0~1000ppm	0~100%LEL
Output Signal	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485	4~20mA,0~5V,0~10V RS485
Product Image					
Product Name	**Explosion-proof Methane Sensor**	**Explosion-proof Methane Sensor**	**Explosion-proof Carbon Monoxide Sensor**	**Explosion-proof Carbon Monoxide Sensor**	**Explosion-proof Chlorine Gas Sensor**
Model	FST100-G109	FST100-G109-S	FST100-G110	FST100-G110-S	FST100-G113
Measuring Range	0~100%LEL	0~100%LEL	0~1000/0~2000ppm	0~1000/0~2000ppm	0~10ppm
Output Signal	4~20mA,0~5V,0~10V RS485	4~20mA,0~5V,0~10V RS485	4~20mA,0~5V,0~10V RS485	4~20mA,RS485	4~20mA,RS485
Product Image					
Product Name	**Explosion-proof Hydrogen Sensor**	**Explosion-proof Sulfur Hexafluoride Sensor**	**Explosion-proof VOC Sensor**	**Explosion-proof Gas Four-in-one Sensor**	
Model	FST100-G114	FST100-G117	FST100-VOC	FST100-G100-4	
Measuring Range	0~1000ppm 0~40000ppm	0~1000ppm (can be customized)	0~1000ppb Equivalent CO2: 400~5000ppm	(See product specifications for details)	
Output Signal	4~20mA,RS485	4~20mA,RS485	4~20mA,RS485	RS485	

Gas Monitoring

Product Image				
Product Name	**Wireless Carbon Dioxide Sensor**	**Wireless Carbon Monoxide Sensor**	**Wireless Ammonia Sensor**	**Wireless Hydrogen Sulfide Sensor**
Model	FST100-G2104	FST100-G2106	FST100-G2107	FST100-G2108
Measuring Range	Co_2 Concentration: 0~2000ppm, 0~5000ppm	0~500ppm, 0~1000ppm 0~2000ppm	0~100ppm, 0~1000ppm 0~5000ppm	0~100ppm, 0~1000ppm
Output Signal	LoRa, NB-IoT	LoRa	LoRa, NB-IoT	LoRa, NB-IoT
Product Image				
Product Name	**Wireless Combustible Gas Sensor**	**Wireless Methane Sensor**	**Wireless Oxygen Sensor**	**Wireless Hydrogen Sensor**
Model	FST100-G2109	FST100-G2110	FST100-G2111	FST100-G2112
Measuring Range	0~100%LEL	0~100%LEL	0~30%, 0~100%	0~1000ppm, 0~4000ppm
Output Signal	LoRa, NB-IoT	LoRa, NB-IoT	LoRa, NB-IoT	LoRa, NB-IoT
Product Image				
Product Name	**Wireless Ozone Sensor**	**Wireless Nitric Oxide Sensor**	**Wireless Nitrogen Dioxide Sensor**	**Wireless Sulfur Dioxide Sensor**
Model	FST100-G2113	FST100-G2114	FST100-G2115	FST100-G2116
Measuring Range	0~10ppm, 0~20ppm 0~100ppm	0~250ppm, 0~2000ppm	0~20ppm, 0~100ppm 0~2000ppm	0~20ppm, 0~100ppm 0~2000ppm
Output Signal	LoRa, NB-IoT	LoRa, NB-IoT, 4G-CAT1	LoRa, NB-IoT	LoRa, NB-IoT, 4G-CAT1

Product Image			
Product Name	**Wireless TVOC Sensor**	**Gas Monitoring Sensor**	**Wireless Portable Gas Four-in-one Detector**
Model	FST100-G2117	GT-FST100-2109B	FST100-G100A-4
Measuring Range	Measuring range: 0~6000ppb eCO_2 (equivalent CO_2): 400~60000ppm	3~100%LEL	CO:0~1000ppm, H_2S:0~100ppm O_2:0~30%VOL, CH_4:0~100%LEL
Output Signal	LoRa, NB-IoT	4G-CAT1	NB-IoT(LWM2M)

Communication Transmission

Product Image				
Product Name	**CommunicationTerminal DTU**	**Communication Terminal DTU (Waterproof Type)**	**Communication Terminal DTU (High-end Waterproof Type)**	**Communication Terminal DTU (Rail Type)**
Model	FST100-300	FST100-301	FST100-302	FST100-303
Frequency Band Range	4G-CAT1:LTE-FDD, LTE-TDD LoRa /LoRaWAN DTU: Working frequency band: 470MHz/868MHz	4G-CAT1:LTE-FDD, LTE-TDD LoRa /LoRaWAN DTU: Working frequency band: 470MHz/868MHz	4G-CAT1:LTE-FDD, LTE-TDD LoRa /LoRaWAN DTU: Working frequency band: 470MHz/868MHz	4G-CAT1:LTE-FDD, LTE-TDD LoRa /LoRaWAN DTU: Working frequency band: 470MHz/868MHz
Output Signal	4G-CAT1, LoRa, NB-IoT	4G-CAT1, LoRa, NB-IoT	4G-CAT1, LoRa, NB-IoT	4G-CAT1, LoRa, NB-IoT ammonia gas,4~20mA,RS485
Product Image				
Product Name	**RTU Remote Measurement and Control Terminal (Waterproof Type)**	**RTU Remote Measurement and Control Terminal (Multi-channel)**	**RTU Remote Measurement and Control Terminal (Multi-channel)**	**LoRa Peer-to-peer Module**
Model	FST100-304	FST100-305	FST100-306	FST100-308
Storage	1M, other 8M, 16M optional	1M, other 8M, 16M optional	8M, other 1M, 16M optional	
Output Signal	4G-CAT1, LoRa, NB-IoT	Ethernet	Ethernet	RS485
Product Image				
Product Name	**Industrial Wireless DTU Relay Control Terminal**	**Industrial Router**	**Wireless DTU Data Monitoring Terminal**	**Industrial Ethernet Serial Port Server**
Model	FST100-316	FST100-317	FST100-318	FST100-319
Output Interface	8DO, supports normally open and normally closed output	2 10/100Mb adaptive ethernet port,1xRS485,1xRS32		Ethernet port
Output Signal	4G-CAT1		NB, 4G-CAT1, LoRaWAN	
Product Image				
Product Name	**5G Industrial Router**	**LoRaWAN Gateway (Indoor)**	**LoRaWAN Gateway (Outdoor)**	**LoRaWAN Gateway (Outdoor)**
Model	FST100-320	FST100-312	FST100-314	FST100-315
Output Interface	Ethernet port, USB	8 uplink channels, 1 downlink channel	8 upward channels, 1 downlink channel	Network channels: 16 uplink channels,1 downlink channel
Output Signal	4G-CAT1, 5G, WIFI	Working frequency band: EU433/CN470/ EU868/US915/AS923/ AU915/IN865/KR920	Working frequency band: EU433/CN470/ EU868/US915/AS923/ AU915/IN865/KR920	Working frequency band: EU433/CN470/ EU868/US915/AS923/ AU915/IN865/KR920