



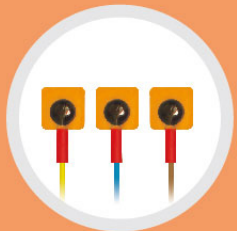
S1 TYPE P.01

Application Example :
Power Plant
Cogeneration Plant
Chemical Plant
Large Pipe Diameter
Large Area
Surface Temperature Sensing



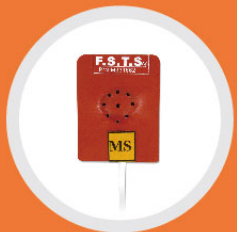
M / M1 TYPE P.01

Application Example :
Refrigerator (Freezer) for Medical Products
Communication Machine Room
Central Control Room
Communication Environment Control Room
Indoor Temperature Sensing for Fire Alarm



M2 TYPE P.04

Application Example :
Refrigerator (Freezer) for Medical Products
Communication Machine Room
Central Control Room
Communication Environment Control Room
Indoor Temperature Sensing for Fire Alarm



MS TYPE P.05

Application Example :
Refrigerator (Freezer) for Medical Products
Communication Machine Room
Central Control Room
Communication Environment Control Room
Indoor Temperature Sensing for Fire Alarm



B / B1 TYPE P.07

Application Example :
Chemical Plant
Power Plant
Cogeneration Plant
Pipe-shape Equipment
Surface Temperature Sensing



R TYPE P.09

Application Example :
Roller Equipment
Power Equipment
Conveying Equipment
Surface Temperature Sensing

FSTS®

DETECT IT AHEAD OF TIME BEFORE THE PROBLEM HAPPEN

Mingyou Co., Ltd. has been specialized and dedicated in the R&D and sales of temperature control and heating control systems and components since its establishment in 1986, and the company has obtained good commendations from hundreds of industrial customers. In view of the issues that the improper installation, adverse environment, careless maintenance and overloading of the industrial production equipment and electrical power equipment may easily and frequently cause damage to the equipment, power interruption, or industrial safety incidents so that the finance or personnel of the enterprise may suffer heavy losses, Mingyou has invested substantial financial and human resources to develop the FSTS series products which are designed for sensing the small surface area on various equipment. These patented products can be employed as the alarm systems for the prevention of incidents for various kinds of equipment in the industry.

• 監視控制

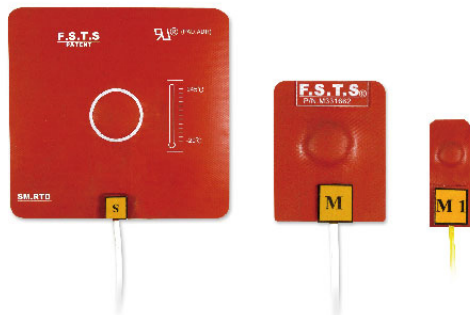


(FSTS系列產品均可連接)



(FSTS系列產品均可連接)

ACCURACY · PROFESSIONAL · QUALITY



Features

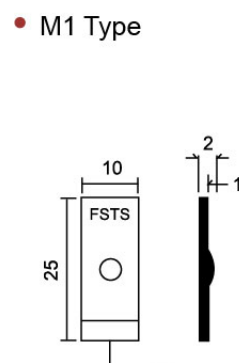
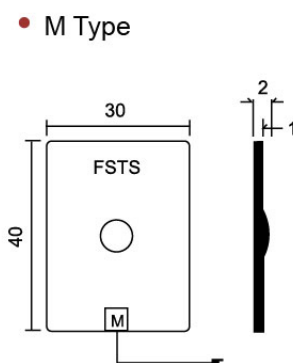
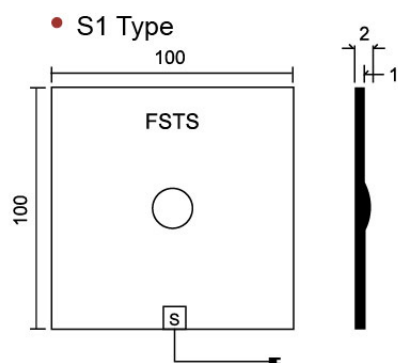
Patent(M331662)

- The Best Solution of Surface Temperature Measurement.
- Detect it ahead of time before the problem happen.
- The best abnormal temperature detector for your equipment.
- The best solution for surface temperature sensing.
- Applicable temperature range:-30°C~250°C.
- Accuracy: DINIEC751 class A or B.
- The material has been certified by UL and complies with UL94HB fire-resistance rating.
- Fast and accurate temperature sensing; 100% IP68 water proof.
- It can be attached on the surface of the object to be sensed with the advantages of simple installation, resistance against severe environment and chemicals.
- Can be securely attached on glass, metal, plastics, etc.

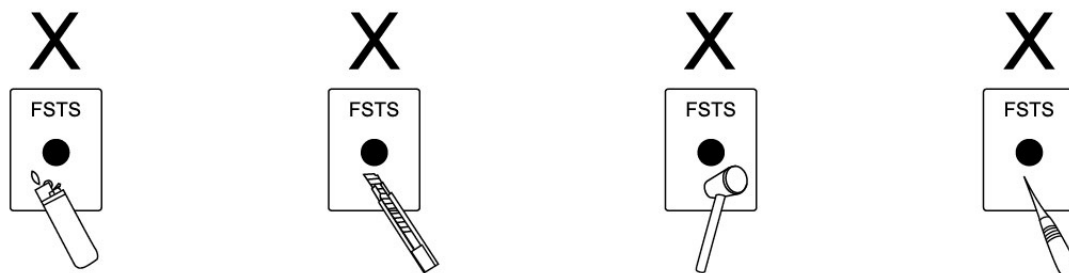
Specifications:

Type	S	M	M1	Note
Outer Dimensions	100x100(mm)	30x40(mm)	10x30(mm)	Can be customized for special requirements
Temperature Sensing Body	P100Ω class A or B, K. T. Thermister			Can be customized for special requirements
Response Speed	200°C/6S			DINIEC751
Thermal Conductivity	1.5W/mK			D547D
Temperature Sensing Range	-30~250°C			
Safety Certification (PAD)	UL94HB/UL746C			E54153/E65361
Adhesion of Backside Sticker	1n ² 1000(100°C) / 500(150°C) / 400(200°C) / 300(250°C) (g)			
Corrosion Resistance	Gasoline, Acetone, cleanser, mild acid/base, etc			SPLASH TESTING
Water Proof Rating	IP68			CNS14165
Insulation Voltage Resistance	5KV			ASTM D-149-91
Installation Type	Backside Sticker (-30°C~200°C) Silicone (>200°C)			
Conducting Wire	PVC(100°C) (Silicone 150°C) (Teflon 180°C)			
Connector	Cylindrical Body 17φx80(mm) IP68 UL94V0 Terminal Box 82x50x40(mm) IP66 UL94V0			Optional Accessories

Dimensions(mm):



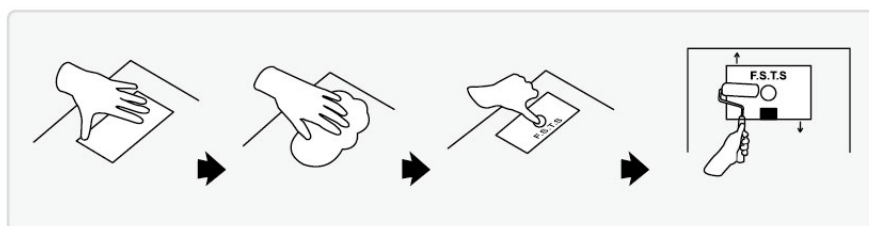
Precautions for Operations:



After peeling off from attachment, it is necessary to stick a new backside sticker before another attachment (a spare backside sticker is supplied with the product).

Attachment Technique:

- 220°C and below (Attach with the backside sticker)



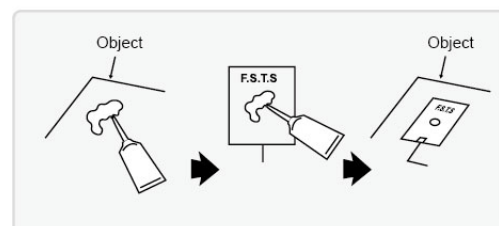
Step 1.
Clean the surface with
cleaning naphtha

Step 2.
Wipe the surface dry
and clean

Step 3.
Attach the tempera-
ture sensing point

Step 4.
Attach its peripheral

- Above 220°C (Apply silicone adhesive);
A bottle of silicone adhesive is supplied
with the product



Apply silicone adhesive on
both the surfaces of FSTS
and the object to be sensed

After staying for 1 minutes,
attach the FSTS on the
object to be sensed

Order Specifications:

FSTS		TYPE	INPUT TYPE	°C SELECT	LEAD WIRE	CONNECTOR	AUX
		S1	DINPT100Ω3W class A	1 100~220°C	1 PVC(105°C) 2M	0 NON	O NON
		M	DINPT100Ω3W class B	2 100°C以内	2 PVC(105°C) 5M	1 Cylindrical body (Male Female) IP68	B TRANSDUCER
		M2	K(CA)	3 220~250°C	3 TEFLON(180°C) 2M	2 Terminal box IP66	C TRANSDUCER
			J(IC)	4 OTHER	4 TEFLON(180°C) 5M	3 OTHER	D OTHER
			T(CC)		5 OTHER		
			OTHER				

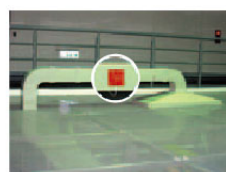
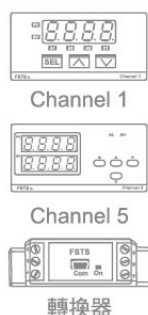
Application Example:

- S1 TYPE



Temperature Sensing of Large-scale
Storage Tank (Connection Example)

PT-100M
T/C-20M
TO



Exhaust gas pipeAbnormal
temperature detection
(Installation Example in
Shangcun Chemical)



Abnormal temperature
detection for air conditioner
pipe (Installation Example in
Shangcun Chemical)



Abnormal temperature
detection for electroplating
exhaust gas pipe
(Installation Example in
Shangcun Chemical)

Abnormal Temperature Detection for Electronic Equipment:

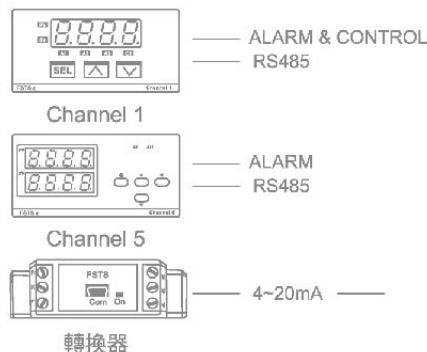
• M & M1 TYPE



VCB過載異常溫度偵測

PT-100M
T/C-20M

→ TO



Abnormal Temperature Detection for Large-scale UPS



Abnormal Temperature Detection for Power Bus Bar



Abnormal Temperature Detection for High-Voltage Fuse Overload



Abnormal Temperature Detection for Capacitor Cabinet



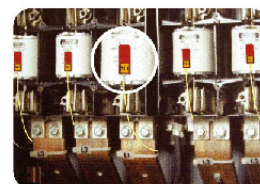
Abnormal Temperature Detection for Transformers



Abnormal Temperature Detection for High-Voltage Cables

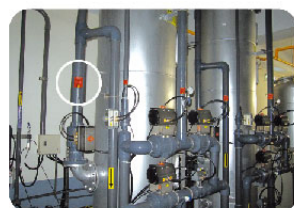


Abnormal Temperature Detection for Motor Overload



Abnormal Temperature Detection for Low-Voltage Fuse

Abnormal Temperature Detection for Boiler Cooling Pipe Ducts:



Abnormal Temperature Detection for Steam Pipes

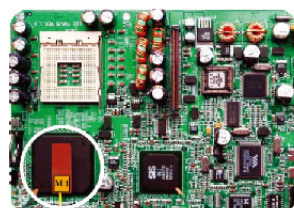


Abnormal Temperature Detection for Steam Pipes



Abnormal Temperature Detection for Water Chiller Pipes

Abnormal Temperature Detection for Electronics Products:



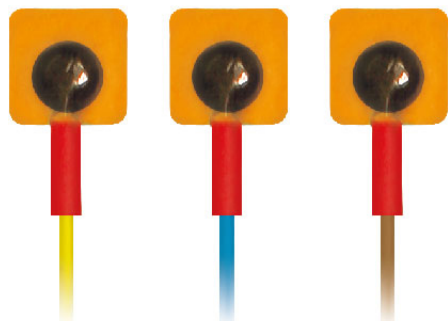
Abnormal Temperature Detection for ICs



Abnormal Temperature Detection for Heat Sinks



Abnormal Temperature Detection for Solar Panels



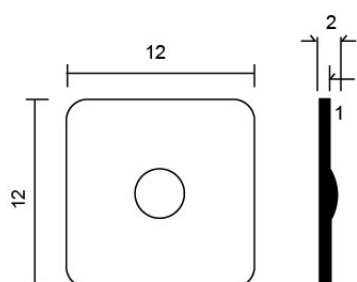
Features

- Applicable temperature range: -30°C~150°C.
- Accuracy: DIN IEC751 Class A or B, T/C Class 0.5.
- The material has been certified by UL and complies with UL-510 fire-resistance rating.
- Mini size 12x12(mm), suitable to detect the temperature of IC.
- Fast and accurate temperature sensing; 100% IP68 water proof
- It can be attached on the surface of the object to be sensed with the advantages of simple installation, resistance against severe environment and chemicals.

Specifications:

Type	M2	Note
Size	12x12x2(mm)	Can be customized for special requirements
Temperature Sensing Body	PT100 Ω A or B, T/C K.J.T	Can be customized for special requirements
Response Speed	200°C/5s	
Thermal Conductivity	1.5w/mk	ASTMD547D
撕裂強度	10kg/in ²	
Temperature Sensing Range	-30~200°C	
Safety Certification (PAD)	UL	E117836
Adhesion of Backside Sticker	in2 800g(100°C) / in2 400g(200°C)	
Comosion Resistance	Gasoline, Acetone, Cleanser, acid/base, etc.	
Water Proof Rating	1P68	CNS14165
Insulation Voltage Resistance	5kv	ASTM D-149-91

Dimensions(mm):



Order Specifications:

FSTS	TYPE	INPUT TYPE	°C SELECT	LEAD WIRE
	M2	1 K	1 100°C内	1 K 1.2Φ TEFLON 2M
		2 J		2 J 1.2Φ TEFLON 2M
		3 T	2 101~200°C	3 T 1.2Φ TEFLON 2M
		4 PT100Q		4 PT PVC 2M
		5 OTHER	3 OTHER	5 PT TEFLON 2M
				6 OTHER

Patent(M331662)



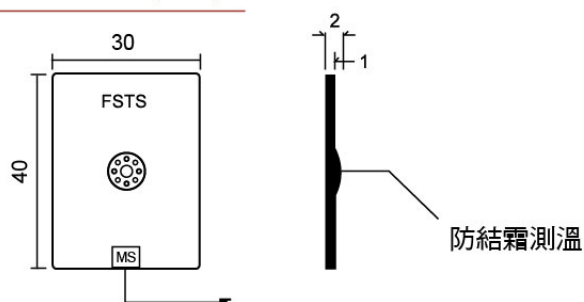
Features

- The Best Solution of Surface Temperature Measurement.
- Detect it ahead of time before the problem happen.
- Suitable for the temperature sensing in refrigerators, freezers, communication machine rooms, and indoor environment.
- Can be attached on the surface made of PE, PP, ABS, PET and various metals.
- Can be attached repeatedly.
- Passed MSDS certification.
- Superconductive, fast, stable and accurate.

Specifications:

Type	MS	Note
Dimensions	30x40(mm)	Can be customized for special requirements
Temperature Sensing Body	P100Ω K.J.T. Thermister	Can be customized for special requirements
Response Speed	200°C/6S	
Thermal Conductivity	1.5W/mK	ASTM D547D
Temperature Sensing Range	-40~250°C	
Accuracy	P100Ω class A or B, 3850ppm/°C, ±4ppm/°C, T/C0.5	DIN IEC751
UL Certification (PAD)	UL94HB/UL746C	E54153/E65361
Corrosion Resistance	Acid, Base, etc	Air dry 20 seconds after spraying
Water Proof Rating	IP68	CNS14165
Toxicity Test	10°C for MSDS test	

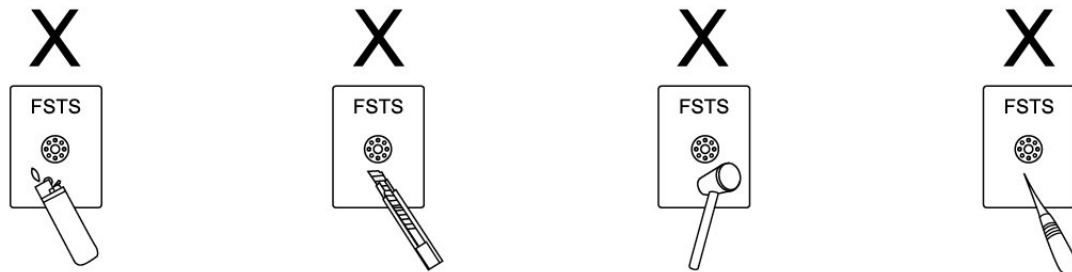
Dimensions(mm):



Order Specifications:

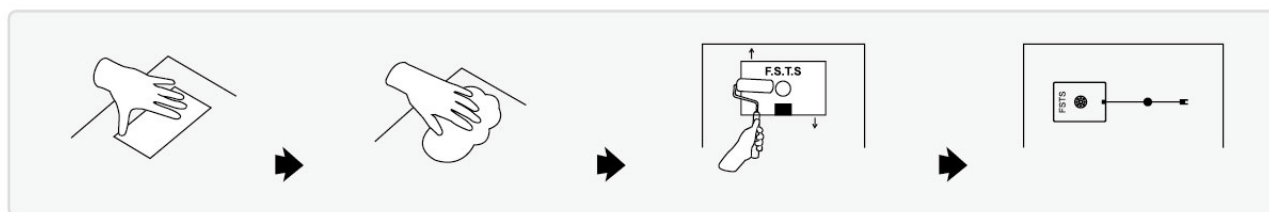
INPUT TYPE	°C SELECT	LEAD WIRE	CONNECTOR	AUX
0 K(CA)	1 100°C以内	0 1M SILICON	0 NON	A NON
1 DINPT100Ω3W	2 100~220°C	1 2M SILICON	1 Cylindrical body (Male-Female) IP68	B TRANSDUCER
2 DINPT100Ω2W	3 220~250°C	2 1M TEFLON	2 Terminal box IP66	C MONITOR
3 JISPT100Ω3W	4 OTHER	3 2M TEFLON	3 OTHER	D OTHER
4 JISPT100Ω2W		4 1M PVC		
5 OTHER		5 2M PVC		
		6 OTHER		

Precautions for Operations:



After peeling off from attachment, it is necessary to stick a new backside sticker before another attachment (a spare backside sticker is supplied with the product).

Attachment Technique:



Step 1.
Clean the surface with
cleaning naphtha

Step 2.
Wipe the surface dry
and clean

Step 3.
Attach the temperature
sensing point

Step 4.
Attach its peripheral

Application Example:



Temperature Sensing for
Medical Refrigerator



Abonormal Temperature
Detection for Communication
Machine Room



Temperature Sensing for UPS
Machine Room



Abnormal Temperature Detection
for Communication Environment
Control Room



Centralized Temperature Monitoring Panel
(RS485)



Central Monitoring Center



Patent(M331662)



預留B1

Features

- The Best Solution of Surface Temperature Measurement.
- Detect it ahead of time before the problem happen.
- Suitable for the abnormal temperature detection on the pipe-shape objects in power plants, cogeneration plants, chemical plants, and semiconductor manufacturing plants.
- Applicable Temperature Range: $-30^{\circ}\text{C} \sim 250^{\circ}\text{C}$.
- Accuracy: DINIEC751 class A or B.
- Material is UL certified and complies with UL94HB rating.
- Superconductive temperature sensing, stable and fast response speed.
- Simple installation and resistance against severe environment and chemicals.

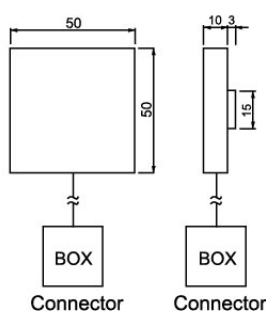
Specifications:

Type	B	B1	Note
Dimensions	30x40(mm)		Can be customized for special requirements
Temperature Sensing Body	PT100Ω class A or B		Can be customized for special requirements
Response Speed	200°C/6S		
Thermal Conductivity	1.5w/mk		ASTM D547D
Temperature Sensing Range	$-40^{\circ}\text{C} \sim 250^{\circ}\text{C}$		
Accuracy	PT class A or B, 3850ppm/°C, $\pm 4\text{ppm}/^{\circ}\text{C} \cdot T/C0.5$		DIN IEC751
UL Certification (PAD)	UL 94 HB/UL746C		E54153/E65361
Corrosion Resistance	Gasoline, Acetone, cleanser, mild acid/base, etc		Air dry 20 seconds after spraying.
Water Proof Rating	IP68		CNS14165
Toxicity Test	10°C for MSDS test		

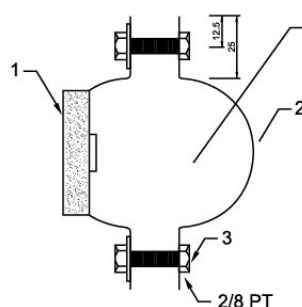
Dimensions(mm):

- Stainless steel buckle type

F.S.T.S Body Dimension: (mm)



Overlook side:

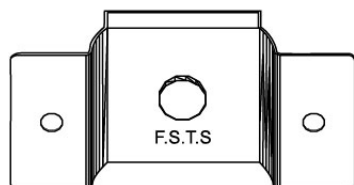


Buckles diagram :
 2" - 55~65(mm) ψ
 3" - 85~95(mm) ψ
 5" - 130~140(mm) ψ

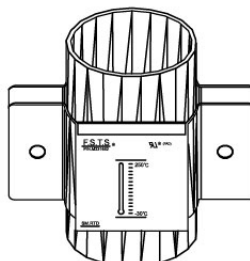
1. Buckle of Front Side (inside the F.S.T.S)
2. Buckle of Back Side
3. Fitting screw

Installing:

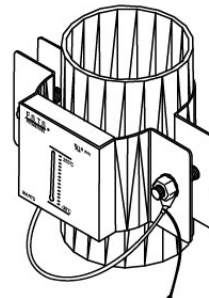
- Step1.
Put the F.S.T.S in the buckle of Front Side.



- Step2.
Wrap up on the pipe.



- Step3.
Turn the Screw to tighten it.



Precautions for Operations:

1. Please do not use this product on equipment with a temperature over 250°C.
2. While installing the product, please fasten the wire mounting ring and mounting rack (reinforce the tensile strength).
3. The product is supplied with a one-year warranty started from delivery date (excluding force majeure).

Order Specifications:

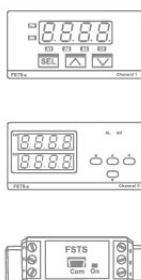
SIZE		INPUT TYPE		°C SELECT		LEAD WIRE		CONNECTOR		AUX	
FSTS	TYPE B	1	2"	1	DINPT100Ω3W Class A	1	100°C以内	1	M	0	NON
		2	3"	2	DINPT100Ω3W Class B	2	100~150°C	2	2M	1	Transmitter
		3	4"	3	K(CA)	3	150~250°C	3	1M TEFLON	2	Single point controller CH1
		4	5"	4	J(IC)	4	OTHER	4	2M TEFLON	3	5-point controller CH5
		5	6"	5	T(CC)	5		5	1M PVC	4	OTHER
		6	Special Requirements	6	OTHER	6		6	2M PVC		
						7		7	OTHER		

Application Example:



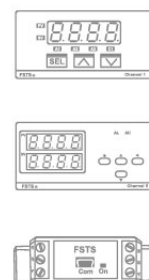
Abnormal temperature detection for power plant, cogeneration plant, heat recycling pipe, and ash ejectors (Example in Formosa Plastics)

PT-100M
T/C-20M



Abnormal temperature detection for steam pipes (Example in Shangcun Chemical)

PT-100M
T/C-20M



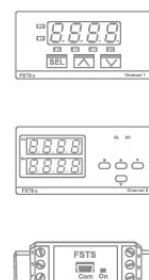
Abnormal temperature detection for the cooling water used in the chiller for air conditioners

PT-100M
T/C-20M



Abnormal temperature detection for the return-loop water used in the cooling water for air conditioners

PT-100M
T/C-20M



Patent(M349488)



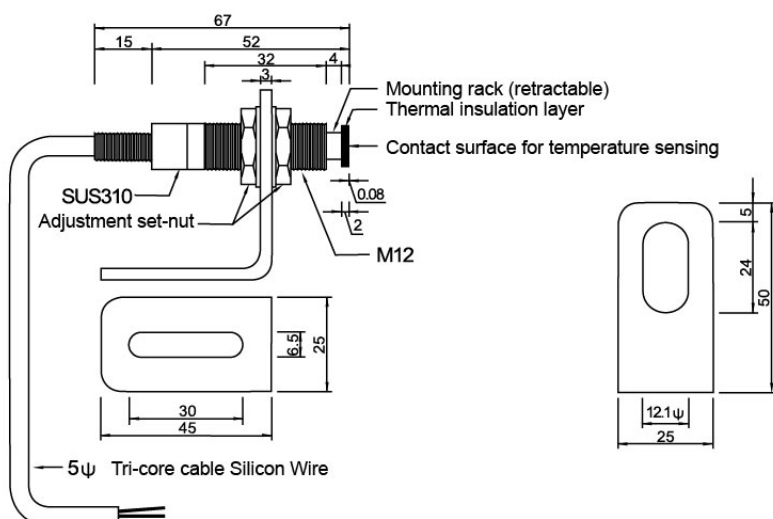
Features

- The Best Solution of Surface Temperature Measurement
- Detect it ahead of time before the problem happen.
- Suitable for the temperature sensing of rubber, Teflon, silicone and metal heating rollers, conveyors, motor spindles, etc.
- Temperature sensing surface has excellent abrasion resistance and a long lifespan.
- Compact, simple installation.
- Temperature rise is fast and stable.
- Resistant against acid, base and various solvents.
- Applicable for heating rollers of any size.

Specifications:

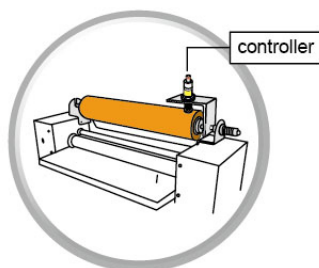
Type	R	Note
Dimensions	m12ψX55(mm) SUS310	Can be customized for special requirements
Temperature Sensing Range	-20°C~250°C	
Type of Temperature Sensing Body	Pt100Ω ClassA / K.J Class.5	DINIEC751
Environment Temperatdure	-30°C~150°C	
Measurement Distance	Contact type, adjustable distance 4 mm	Retractable spring
Response Speed	Approx. 6 seconds	DINIEC751
Resistance against Solvent (Spray)	Gasoline, machine oil, alcohol, ammonia, acetone, and cleanser	
Resistance against Acid/Base	Mild acid or base	
Water Proof Rating	IP68 CNS14165	9030700066
Fire-Resistance Rating	V094HB	UL E179854
Roller Size	MIN 20mm ~ MAX unlimited	
Mounting Metho	L-shape mounting rack	

Dimensions(mm):

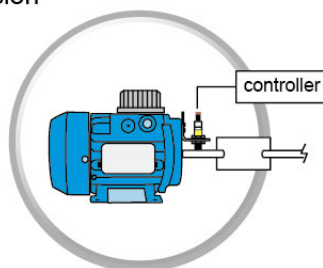


Application Example:

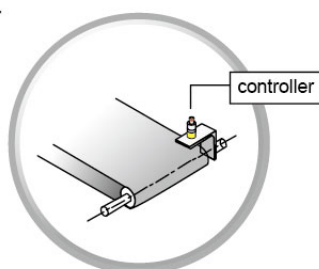
1. Heating Roller



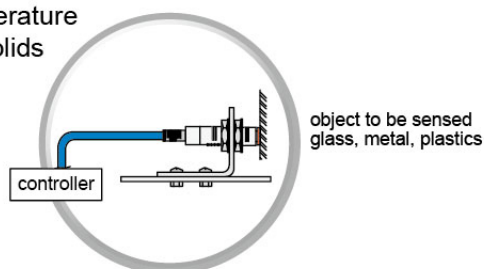
2. Power Transmission Axle



3. Conveyor

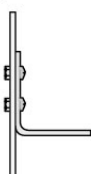


4. Surface Temperature Sensing for Solids

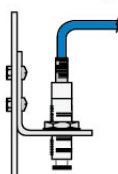


Installing:

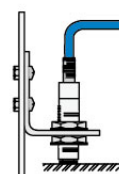
1. Mount the L-shape mounting rack at a proper location on the machine



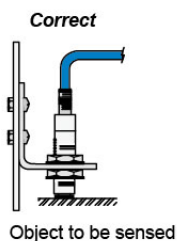
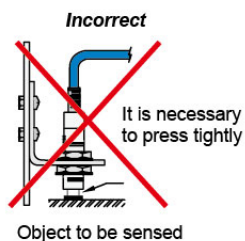
2. Place the temperature sensing head into the L-shape mounting rack



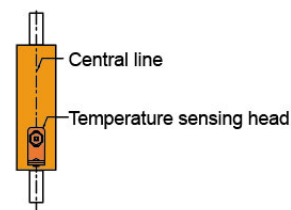
3. Fit the screw, adjust the distance and fasten the object to be sensed



4. Standard adjustment distance



5. Installed at the center of the roller



Order Specifications:

FSTS	TYPE R	INPUT TYPE		°C SELECT		LEAD WIRE		CONNECTOR		AUX	
		1	DINPT100Ω	1	0~200℃	1	2M SILICON	0	NON	A	NON
		2	JISPT100Ω	2	200~250℃	2	2M TEFLON	1	Cylindrical body (Male Female) IP68	B	Transducer TR-100
		3	K TYPE	3	OTHER	3	OTHER	2	Terminal box IP66	C	Single point controller CH1
		4	J TYPE					3	OTHER	D	OTHER
5	OTHER										



Channel 1



Channel 5



Features

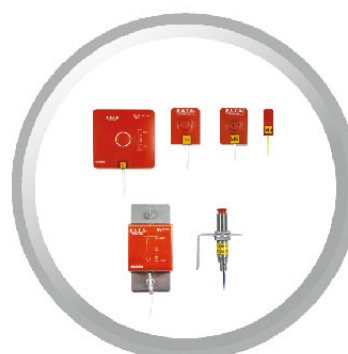
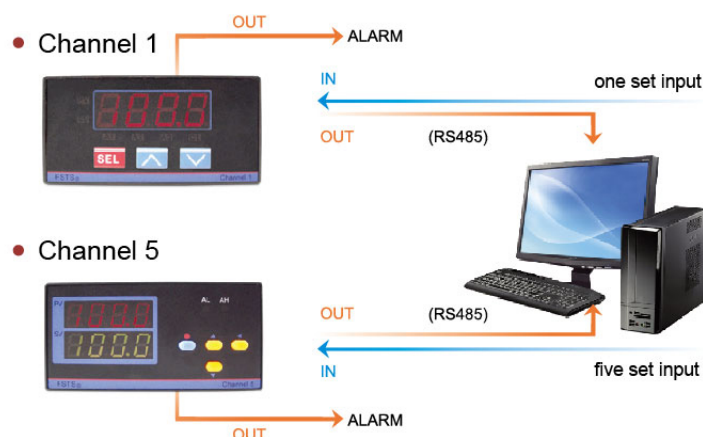
- CH1 or CH5 Inputs (K, J, T, DINPT100Ω4-20mA0
- 2 alarms, multi-mode time-delayed alarms
- After being converted into 4-20mA, it can be operated with recorder for centralized monitoring.
- RS485 communication capability (MOBUS RTU format)
- 90-264VAC or DC24V (Power)
- IP 65



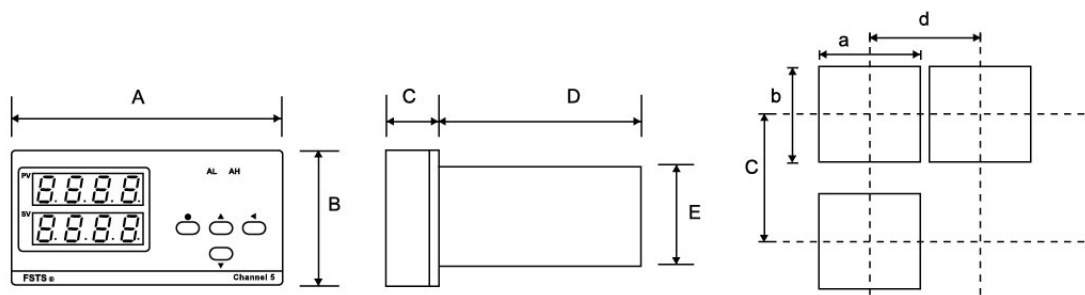
Specifications:

Type	Channel1	Channel5
Input	T/C: K, T, B, S, C, J, E, R, N PT DINPT100ΩJIS100ΩLinear 4-20mA 1-5V 0-10V	T/C: K, J, T DINPT100ΩLinear4-20mA 1-5V
Accuracy	T/C±1°C RTD±0.2°C Linear ±3uv	
Sampling Time	0.25sec	
Control Mode	P:PB 0.0~300%FS ON/OFF Hysteresis 0~2000	ON/OFF HI. LO. Hysteresis 0~2000
Cycle time(0~100s)	Relay 0~15 sec, puls 1 sec, current(voltage) 0sec	
Output	Relay 10A/240VAC Puls:DC0/24V(250Ωmin) 4~20mA(600Ωmax) 0~10V(600Ωmax)	Relay 2a 5A/240NAC(Resistant Load)
Ratevoltage	AC90~264V 50/60HZ DC24V	
Ambient Temperature	0~50°C	
Ambient Humidity	0~90%	
Consumption	3W以下	
Alarm mode	PV HI LO AL, Deviation Hi Lo AL, Band Hi Lo AL, PV Hi Lo AL with Delay time.	

Application Example:



Dimensions:

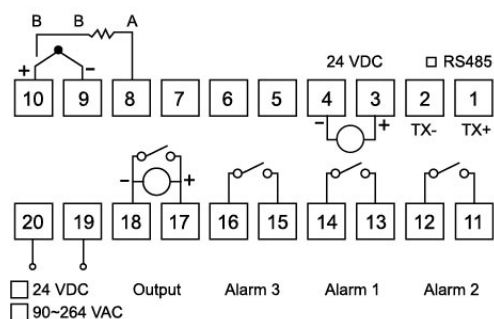


(Unit:mm)

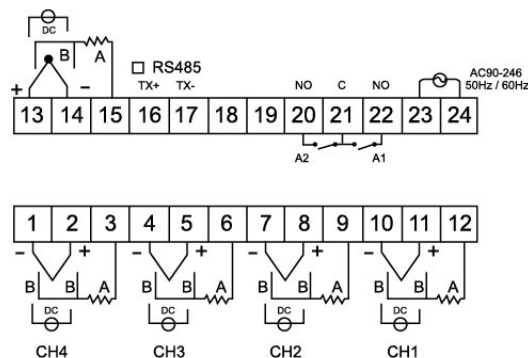
Model	A	B	C	D	E	a	b	c	d
CH1.CH5	96	48	9	80	45	92 ^{+0.5}	45 ^{+0.5}	48	120

Wiring Diagram:

• Channel 1



• Channel 5



Order Specifications:

FSTS

CODE	MODE	CODE	INPUT	CODE	OUTPUT	CODE	ALSRM	CODE	CONTROL	CODE	SELECTION	CODE	POWER
C1	CH1	T	T/C	R	Realy	1	1AL	C	ON-OFF	N	None	A	AC90-264V 50/60HZ
C5	CH5	D	RTD	P	SSR	2	2AL	P	P	R	Retrairmission	D	DC-24V
		L	analogy	M	4-20mA	3	3AL			C	RS-485		
				V1	0~10V	4	Hi Lo Al						
				V2	1~5V								



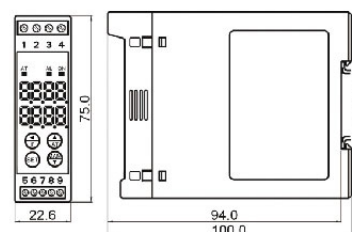
Features

- Rail-mounted, precise, compact.
- Has display, control, alarm and transmission functions.
- RS485 (MODBUS) communication function, expandable to 256 points.
- Multiple input/output options.
- With FUZZY+PID control functions.
- With heater breakage alarm.

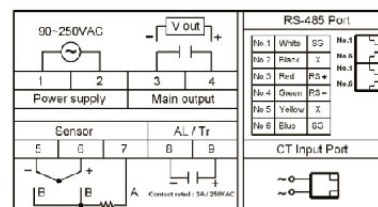
Specifications:

Type	PC-1000
Dimensions	22.6x75x100 (mm)
Input Method	PT100Ω(DIN) 、T/C 、4-20mA 、0-10V
Output Method	Relay 、SSR 、4-20mA or DCV0-10V
Control Method	PID.ON-OFF 、selectable
Alarm Output	1組1a(5A/250VAC SPDT)
Display Range	-999~9999
Precision	±0.2% OFF.S+1Digit
Working Voltage	90~265VAC 50/60 Hz or 24VDC/AC (op)
Ampere Consumption	5VA max. or 100mA max (24VDC)
Memory Type	EEPROM
Insulation Strength	OVER50mΩ/500VDC
Voltage Endurance	OVER2.5KV/1MINUTE
Operating Environment	-20℃~75℃ RH:85%
E MC Standard	ESD:8KV Air Discharge(L-13)/EN-6100-4-2 RFInterference: 10V/M/ENV-50140 Burst test:2KV/EN61000-4-4

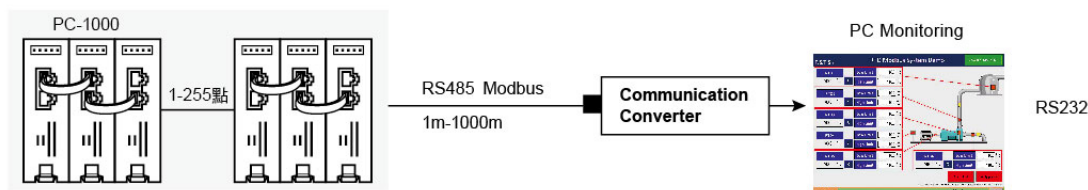
Dimensions:



Wiring diagram:



Linking illustrations:



- The system can be linked with up to 255 monitors.
- Equipped with phone connectors, easy to install.
- We provide design and testing services for monitoring software (changed separately).

Order Specifications:

FSTS-PC1000

CODE	IN	CODE	OUT	CODE	ALARM	CODE	COM	CODE	POWER	CODE	CT
T	T/C	1	Relay	Y	YES 1 組	R	RS-485	A	AC90~260	10A	
P	PT100Ω	2	SSR	N	NO	N	NO	D	50/60 Hz	30A	
L	4-20mA	3	4-20mA					S	DC24V	50A	
D	0-10VDC	4	0-10VDC						OTHER		
		5	OTHER								



Features

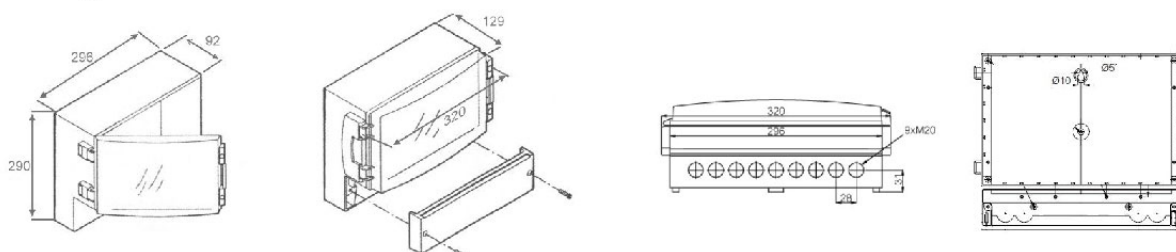
- Precise, reliable, easy installation and user-friendly operations.
- Anomaly message sent to manager's cell phone within 3 seconds.
- Accomplishes active and mobile management.
- Chinese touch-panel setting, easy to edit.
- Applicable to signal monitoring and alarms of both physical and chemical quantities.
- With RS485 MODBUS RTU communication port.

Specifications:

Type	TPC-6000
Power Supply	110/220 VAC
Temperature Of Working Environment	-20°C~70°C
Temperature And Humidity For Storage	-20°C~70°C 0~85%RH
Controlled Output	5 Points. HH-H-L-LL 4 Sections
One Set Common-Point Alarm	1A/125VAC (With Reset Function)
Communication Setting	RS485 Mobus RTU
Waterproof Class	IP65 Made Of ABS
Product Dimensions	320 x 290 x 129 (WxHxD)
Input Signal	4-20mA or PT100Ω or T/C
Input Terminals	6 pt
Display	7" Color Touch Panel (800x480)
Precision	±0.1% F.S
Power Consumption	8W~10W(MAX)
Sampling Time	10 Times/Sec
Product Weight	2.15kg
Installation Method	Wall-Mounted

Dimensions(mm):

- TPC-6000 Type



Dimensions:

- Anomaly monitoring over sub-station equipment.
- Communication Equipment Room, Temperature/ Humidity Monitoring.
- Monitoring over machine shaft, electrical equipment.
- Temperature/ Humidity Monitoring of Refrigerators.
- Process Signal Monitoring.
- Smoke Exhaust Anomaly Monitoring.
- Wastewater Discharge Monitoring.
- Debris Flow, Water-level/anomaly monitoring.
- Cultivating temperature and oxygen content monitoring.

Functions:

- Chinese touch panel, easy to operate and setup.
- User-defined channel name/ measurement range/ decimal point shifting/ slope/ HH-H-L-LL alarm levels.
- Chinese Alarm Messages include name, value, status, time.
- Automatic SIM card detection - search - system service icon - Pre-Paid Card enabled Service.
- USB recording module up to 3000 entries (operational).
- Setting of alarm Delay Time for a range of a delayed controls.
- Setting of up to 10 cell phone numbers, in 2-level managing groups.
- Stores 10 records of anomalies.
- Ring-tone before sending a message - reset notice - resend mechanism on a persistent anomaly
- Autonomous text message for acquiring current values of respective channels.
- Centralized integral management software - Statistics of channel anomalies in respective region, Monthly Anomaly Report Simplified statistics of active messages; Email sending manager (graph, report, optional).

Product applications:





TR100

TR200

Features

- Lightweight, thin, compact and small, installation with aluminum rails.
- Multiple inputs/outputs can be programmable freely.
- Isolated inputs and isolated outputs can avoid interference.
- Sensor failure protection can be configured with highest output or lowest output.
- Equipped with RS485 transmission capability (MODBUS RTU).

Programmable:

Can be edited or modified without external power supply input/output Specifications.



TR100
TR200



URC-1020
Transmission
Cables



Computer Software
(supplied with the product)

Specifications

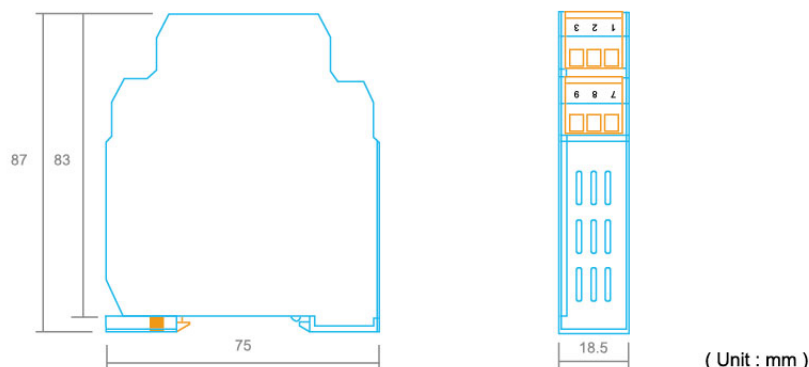
Input	Thermal couples of K, J, T, E, B, R, S, N, C (ITS-90) Thermistor PT 100Ω, 2-wire or 3-wire Voltage ±60mVDC or ±10VDC Current 0 to 24mA DC
Accuracy	Parameter table
A/D Resolution	16 Bits
Sampling Time	<200ms
Power Supply	DC 10~36V
Max. Load	MAX LOAD、(V-10) 10.02(Ω)
Output Resolution	0.6uA(15Bits)
Output Response Time	<200ms
Common Mode Rejection Ratio (CMRR)	>80dB
Battery Compatibility	En50081-2 . En50082-2
Isolation	4KV between input and output
Operating temperature	-40 to 85°C
Humidity	0 to 90%RH
Dimensions	75mm(w) X 87mm(H) X 18.5mm(D)

Input type and range

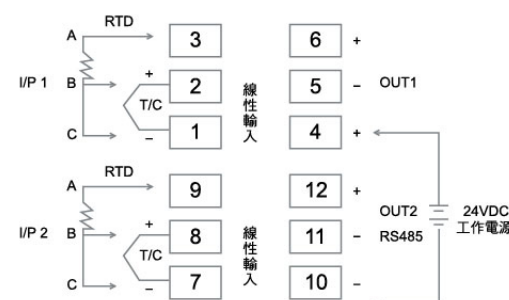
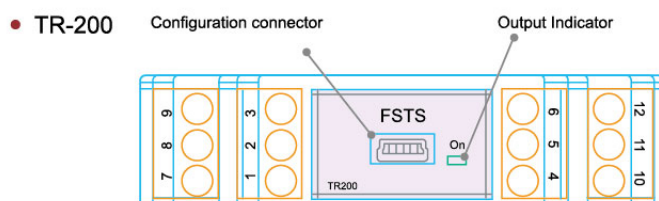
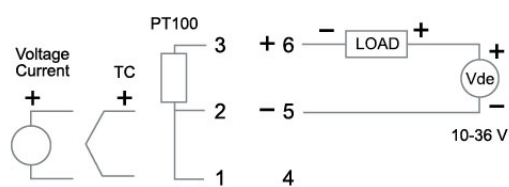
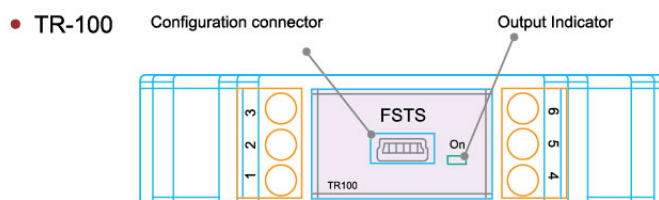
Input Type	Max. Range	Precision
Thermocouple J	-50 to 1000 °C (-58 to 1832)°F	±1°C
Thermocouple K	-50 to 1370 °C (-58 to 2498)°F	±1°C
Thermocouple T	-270 to 400 °C (-454 to 752)°F	±1°C
Thermocouple E	-50 to 960 °C (-58 to 1780)°F	±1°C
Thermocouple B	0 to 1750 °C (32 to 3182)°F	±2°C (註1)
Thermocouple R	-50 to 1750 °C (-58 to 3182)°F	±2°C
Thermocouple S	-50 to 1750 °C (-58 to 3182)°F	±2°C
Thermocouple N	-50 to 1300 °C (-58 to 2372)°F	±2°C
Thermocouple C	-50 to 1800 °C (-58 to 3272)°F	±2°C
Pt100	-200 to 600 °C (-328 to 1112)°F	±0.2°C
mV	-60mV to 60mV	±0.01mV
Voltage *	-10 to 10Vdc	±1mV
Current *	0 to 24mA dc	±10 uA

* The internal admonish switch must establish

Dimensions:



Wiring Diagram:



Order Specifications:

CODE	1ST INPUT	CODE	2ED INPUT	CODE	1ST RANGE	CODE	2ED RANGE	CODE
TR100	Thermocouple J	J	Thermocouple J	J	Does not choose	N	Does not choose	N
TR200	Thermocouple K	K	Thermocouple K	K	-50~50°C	1	-50~50°C	1
	Thermocouple T	T	Thermocouple T	T	0~50°C	2	0~50°C	2
	Thermocouple E	E	Thermocouple E	E	0~100°C	3	0~100°C	3
	Thermocouple B	B	Thermocouple B	B	0~150°C	4	0~150°C	4
	Thermocouple R	R	Thermocouple R	R	0~200°C	5	0~200°C	5
	Thermocouple S	S	Thermocouple S	S	0~400°C	6	0~400°C	6
	Thermocouple N	N	Thermocouple N	N	0~500°C	7	0~500°C	7
	Thermocouple C	C	Thermocouple C	C	0~600°C	8	0~600°C	8
	Pt100	D	Pt100	D	0~800°C	9	0~800°C	9
	mV	L	mV	L	0~1000°C	10	0~1000°C	10
	Voltage	V	Voltage	V	0~1200°C	11	0~1200°C	11
	Current	M	Current	M	Specifec	S	Specifec	S
CODE	1ST INPUT	CODE	2ED INPUT	CODE	WORK POWER SOURCE	CODE	SOFTWARE PLAN	CODE
	DC 4 ~ 20mA	1	Nonselective	1	DC24V	D	yes	Y
	DC20 ~ 4mA	2	DC 4 ~ 20mA	2				
	DC 0 ~ 20mA	3	DC 0 ~ 5V	3				
	DC 0 ~ 5V	4	DC 0 ~ 10V	4				
	DC 0 ~ 10V	5	RS485	5	Specifec	S	NO	N
	Specifec	S	Specifec	S				