

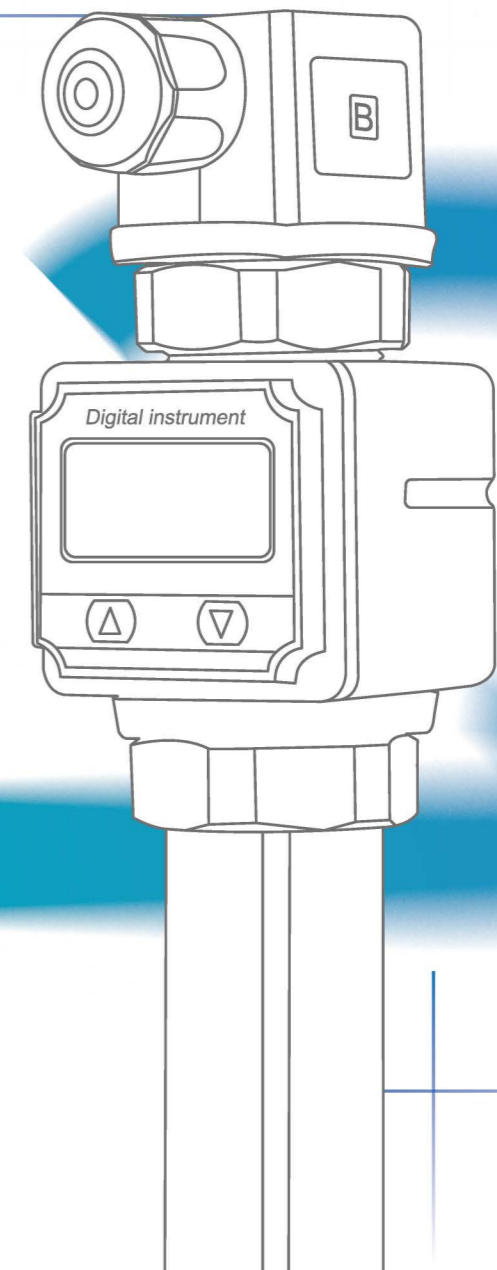
Xiamen Mingcon Instrument Co.,Ltd.



# PRODUCT MANUAL

Focus on “One-Step”

Temperature Sensor  
Pressure Transmitter  
Thermostat  
Flowmeter



TO THE VAST AND METICULOUS

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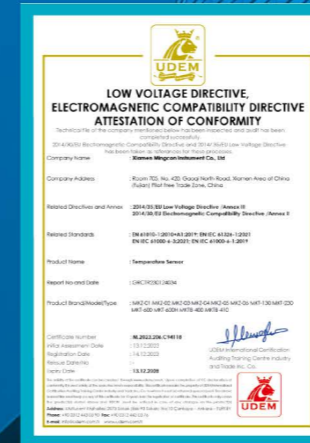


# COMPANY PROFILE

  
2014  
Formation

  
9  
Patents

  
6  
Trademarks



## Xiamen Mingcon Instrument Co.,Ltd.

The company was founded on September 14, 2014, currently has 9 utility model patents and 6 registered trademarks, with the overall development trend on the rise.

Xiamen Mingcon and partners to achieve full cooperation, and constantly expand the scope of cooperation, deepen the content of cooperation. Adhere to the road of self-reliance and independent innovation. To realize the company's vision and goals in a practical manner, and continue to provide quality services!

### Company Advantages

We strive to enhance the endogenous power and strive to achieve effective improvement in product quality.

### Solutions

We build a complete set of solutions, products used in a number of industries, such as equipment manufacturing, environmental protection, high-efficiency energy-saving technology industry.

### Quality Assurance

With our own factories, we select precise product components, strictly control the production process, and thoroughly inspect the products.

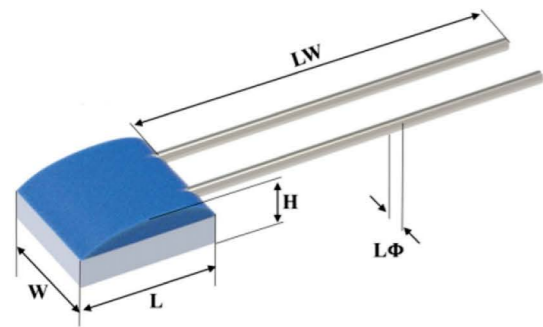
### Purpose

Focus on building a "One-Step" reliable service so that users get a high-quality experience.



# SERIES PRODUCTS

## PT100-2W Film Platinum Resistance



H=1.1±0.1mm(Height)	L=2.3±0.1mm(Length)
W=2.0±0.1mm(Width)	LW=1.0±1mm(Lead Length)
LΦ=0.2+0.02mm(Lead Diameter)	

### MODEL PARAMETERS

Model	PT100-2W				PT100-2W-H650		PT100-2W-L200	
Scope Of Use	-70~+500°C				-70~+650°C		-20~+150°C	
Grade	1/3B	A	B	2B	B	2B	B	2B
R0(Ω)	100±0.04	100±0.06	100±0.12	100±0.24	100±0.12	100±0.24	100±0.12	100±0.24
Temperature Range	0~+150°C	-50~+300°C	-70~+500°C	-70~+500°C	-50~+650°C	-50~+650°C	-200~+150°C	-200~+150°C
Precision	±(0.1+0.0017 T )	±(0.15+0.002 T )	±(0.3+0.005 T )	±(0.6+0.01 T )	±(0.3+0.005 T )	±(0.6+0.01 T )	±(0.3+0.005 T )	±(0.6+0.01 T )

Note \* : the marked grades and temperature measurement accuracy refer to the IEC60751 standard. It is the temperature measurement accuracy within the specified temperature range and does not represent the temperature measurement accuracy within the full temperature range. T is the measured temperature.

### PRODUCT CHARACTERISTICS

- PT100-2W series thin film platinum resistors have the advantages of small size, high precision and good long-term stability.
- They are shock-and shock-resistant.
- The product can be divided into conventional, ultra-low and high temperature series, sub-high-200 ° C ~ + 650 ° C temperature range.
- It can be used in many connection modes, such as resistance welding, argon arc welding, pressure welding, brazing, etc.
- Widely used in automotive, instrumentation, household electrical, new energy and other fields.

Thin Film Platinum Resistors	Scope Of Use	Grade	R0(Ω)	Temperature Range	Precision
PT1000-2W 	-70~+500°C	A	1000±0.06	-50~+300°C	±(0.15+0.002 T )
		B	1000±0.12	-70~+500°C	±(0.3+0.005 T )
		2B	1000±0.24	-70~+500°C	±(0.6+0.01 T )
PT20-2W 	-70~+500°C	A	20±0.06	-50~+300°C	±(0.15+0.002 T )
		B	20±0.12	-70~+500°C	±(0.3+0.005 T )
		2B	20±0.24	-70~+500°C	±(0.6+0.01 T )
PT300-2W 	-70~+500°C	A	300±0.06	-50~+300°C	±(0.15+0.002 T )
		B	300±0.12	-70~+500°C	±(0.3+0.005 T )
		2B	300±0.24	-70~+500°C	±(0.6+0.01 T )
PT100-SMD 	-50~+300°C	A	100±0.06	0~+150°C	±(0.15+0.002 T )
		B	100±0.12	-50~+300°C	±(0.3+0.005 T )
		2B	100±0.24	-50~+300°C	±(0.6+0.01 T )
PT1000-SMD 	-50~+300°C	A	1000±0.06	0~+150°C	±(0.15+0.002 T )
		B	1000±0.12	-50~+300°C	±(0.3+0.005 T )
		2B	1000±0.24	-50~+300°C	±(0.6+0.01 T )

Note \* : the marked grades and temperature measurement accuracy refer to the IEC60751 standard. It is the temperature measurement accuracy within the specified temperature range and does not represent the temperature measurement accuracy within the full temperature range. T is the measured temperature.

## Resistance Temperature Detector Products

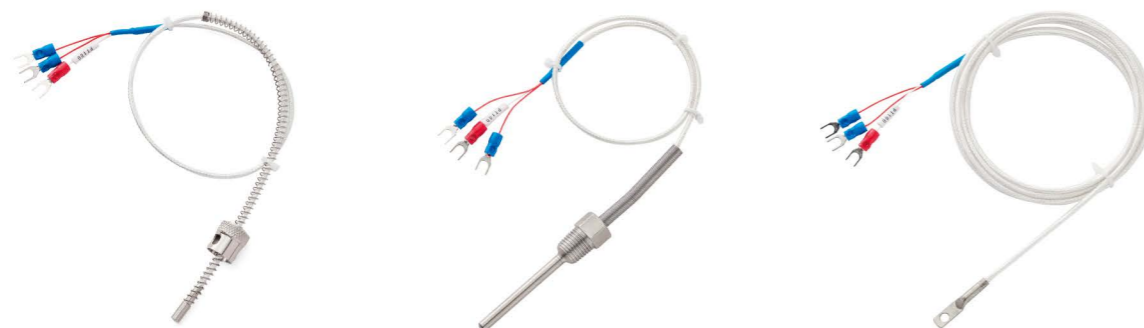


Product Name	MKZ-01 Screw RTD	MKZ-02 Pressure Spring RTD	MKZ-03 Double Barrel Probe RTD
Degree Number	PT100, PT1000	PT100, PT1000	PT100, PT1000
Precision Rating	1/10B 1/3B A B 2B	1/10B 1/3B A B 2B	1/10B 1/3B A B 2B
Temperature Resistant Range	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)
Protective tube material	copper	SS304/316L stainless steel	SS304/316L stainless steel
Probe Specifications	Default M6 metric screw (customizable)	M12*1.5(customizable)	4*30mm(customizable)
Wiring Configuration	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)

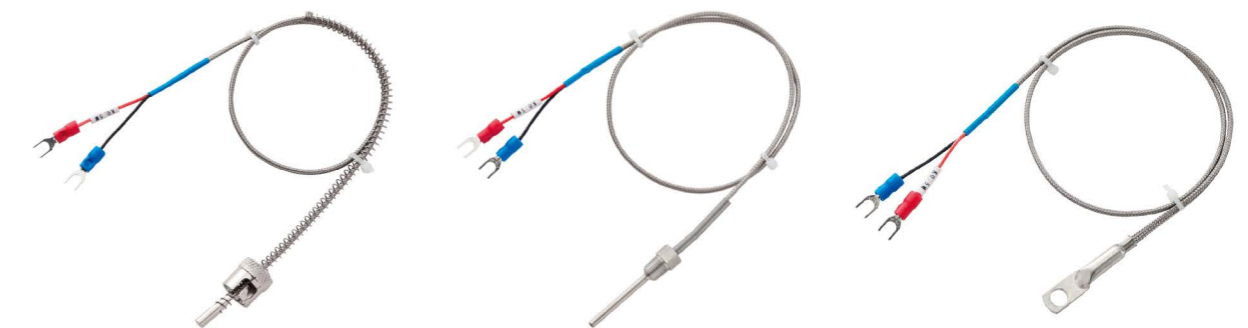
## Thermocouple Products



Product Name	MK-01 Screw TC	MK-02 Pressure Spring TC	MK-03 Double Barrel Probe TC
Degree Number	K, T, E, J, N(customizable)	K, T, E, J, N(customizable)	K, T, E, J, N(customizable)
Temperature Resistant Range	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)
Protective tube material	copper	SS304/316L stainless steel	SS304/316L stainless steel
Probe Specifications	Default M6 metric screw (customizable)	M12*1.5(customizable)	4*30mm(customizable)
Wiring Configuration	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)



Product Name	MKZ-04 Buckle RTD	MKZ-05 Threaded RTD	MKZ-06 Gaske RTD
Degree Number	PT100, PT1000	PT100, PT1000	PT100, PT1000
Precision Rating	1/10B 1/3B A B 2B	1/10B 1/3B A B 2B	1/10B 1/3B A B 2B
Temperature Resistant Range	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)	-50~200°C (Three-core Teflon Wire) -50~400°C (Metal Shielding Wire)
Protective tube material	copper, SS304/316L stainless steel	SS304/316L stainless steel	copper
Probe Specifications	4*10mm (customizable)	M6, M8, G1/2, G1/4 (customizable)	aperture:4mm 5mm 6mm 8mm (customizable)
Wiring Configuration	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)



Product Name	MK-04 Buckle TC	MK-05 Threaded TC	MK-06 Gaske TC
Degree Number	K, T, E, J, N(customizable)	K, T, E, J, N(customizable)	K, T, E, J, N(customizable)
Temperature Resistant Range	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)	0~200°C(Teflon Wire) 0~700°C(Metal Shielding Wire)
Protective tube material	SS304/316L stainless steel	SS304/316L stainless steel	copper
Probe Specifications	4*10mm (customizable)	M6, M8, G1/2, G1/4 (customizable)	aperture:4mm 5mm 6mm 8mm (customizable)
Wiring Configuration	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)	Default U terminal (can be customized pin, bare wire)



## Armored Thermocouple Products



Product Name	E-type Armored Thermocouple	J-type Armored Thermocouple	K-type Armored Thermocouple
Degree Number	E	J	K
Temperature Resistant Range	-40°C~900°C(customizable)	-40°C~750°C(customizable)	-40°C~1200°C(customizable)
Lead Material	Teflon Wire/Metal Shield Wire	Metal Shield Wire	Metal Shield Wire
Probe Diameter	0.5mm/0.8mm/1.0mm/1.5mm\ (customizable)	0.5mm/0.8mm/1.0mm/1.5mm\ (customizable)	0.5mm/0.8mm/1.0mm/1.5mm\ (customizable)
Thermocouple Wire Material	Nickel- Chromium +/Copper-Nickel -	Iron +/Copper-Nickel -	Nickel-chromium +/Nickel-Silicon -
Wiring Configuration	Default u terminal (custom pin, bare wire, plug-in)	Default u terminal (custom pin, bare wire, plug-in)	Default u terminal (custom pin, bare wire, plug-in)



Product Name	N-type Armored Thermocouple	T-type Armored Thermocouple
Degree Number	N	T
Temperature Resistant Range	-40°C~1200°C(customizable)	-40°C~350°C(customizable)
Lead Material	Metal Shield Wire	Teflon Wire
Probe Diameter	0.5mm/0.8mm/1.0mm/1.5mm\ (customizable)	0.5mm/0.8mm/1.0mm/1.5mm\ (customizable)
Thermocouple Wire Material	Nickel-Chromium-Silicon +/Nickel-Silicon -	Pure Copper +/Copper-Nickel -
Wiring Configuration	Default u terminal (custom pin, bare wire, plug-in)	Default u terminal (custom pin, bare wire, plug-in)

## Pressure Transmitter Products



Product Name	MKP-400 Explosion-Proof Pressure Transmitter	MKP-410 Explosion-Proof Digital Pressure Transmitter	MKP-800 Single Crystal Silicon Pressure Transmitter
Measurement Range	0.1MPa~60MPa	0.1MPa~60MPa	±100kPa, -0.1~3MPa, 0~40MPa
Pressure Type	gauge pressure, absolute pressure, seal pressure	gauge pressure, absolute pressure, seal pressure	gauge pressure, absolute pressure
Power Supply Output	4~20mA (18~36V) 1~5V, 0~5V, 0.5~4.5V	4~20mA with display (12~36V) 1~5V, 0~5V, 0.5~4.5V	12VDC~32VDC, 24VDC
Precision	0.5%FS	0.5%FS	±0.075%FS; ±0.1%FS
Operating Temperature	-20°C~85°C	-20°C~85°C	-20°C~85°C
Medium Temperature	-20°C~85°C	-20°C~85°C	-20°C~85°C
Diaphragm Material	stainless steel 316L	stainless steel 316L	stainless steel 316L
Shell Material	low-copper aluminum alloy	low-copper aluminum alloy	low-copper aluminum alloy
Protection Level	IP65	IP65	IP65
Explosion-Proof Rating	Exia II CT6	Exia II CT6	Ex d IIB T6 Gb



Product Name	MKP-620 Threaded Flat-Film Pressure Transmitter	MKP-630 Clamp Flat Film Pressure Transmitter	MKP-600 Pressure Transmitter
Measurement Range	-100kPa...0~35kPa...10MPa	-100kPa...0~35kPa...2.5MPa	0.1MPa~60MPa
Pressure Type	gauge pressure, absolute pressure, seal pressure	gauge pressure, absolute pressure, seal pressure	gauge pressure, absolute pressure, seal pressure
Power Supply Output	4~20mA(12~30VDC) 0~5V, 1~5V, 0.5~4.5V, 0~10V(12~24V)	4~20mA(12~30VDC) 0~10V(12~30VDC)	4~20mA, 0~5V, 0~10V(12~30VDC) 0.5~4.5V R/M (5VDC)
Precision	0.5%FS	0.5%FS	0.5%FS
Temperature Drift	1.5%FS(-20°C~85°C)	35kPa:±3%FS(0°C~60°C) others:±1.5FS(-10°C~7°C)	1.5%FS (-20°C~85°C)
Operating Temperature	-40°C~85°C	-40°C~125°C	-40~125°C
Shell Material	stainless steel 304	stainless steel 304	stainless steel 304
Protection Level	IP65	IP67	IP65



## Thermostat Products



### MK-501 Displays and Alarm Instrumentation

Functions: 0.3 level precision, multi-degree input, 4 alarms, double-row 4-bit digital, Modbus Communication Protocol.



### MK-526 Artificial Intelligence Thermostat

Functions: 0.25 level precision, double PID, heating and cooling double output, event input selection, Modbus Communication Protocol.

### MK-526P Programmable Artificial Intelligence Thermostat

Function: in the MK-526 based on the addition of 30 program control.



### MK-701 High Precision Display Alarm Instrument

Features: 0.2-level accuracy, double-row 4-bit display panel, with thermocouple, thermal resistance, 0 ~ 5v, 1 ~ 5v and other linear voltage input.



### MK-702M 2-Channel Patrol Inspection Instrument

Function: 0.2 level accuracy, the new dry and wet ball temperature and humidity.



### MK-704M 4-Channel Patrol Inspection Instrument

Functions: 0.2 level accuracy, transmission and room addition multiplication function.



### MK-706M 6-Channel Patrol Inspection Instrument

Function: 0.2 class accuracy, transmission and opening addition multiplication function.



### MK-719 Function-Enhanced Artificial Intelligence Regulator

Function: 0.1 level precision, double PID, manual output and power-on soft start function, Modbus communication protocol.



### MK-7028 2-Channel MK-7038 3-Channel MK-7048 4-Channel PID Artificial Intelligence Temperature Controller

Features: thermocouple, MV voltage or two-wire PT100 input, 0.2 precision, SSR output.

## Junction Box Type Integrated Temperature Transmitter

It is made of thickened aluminum alloy with high protection and good performance.

### Junction Box Temperature Transmitter MKT-230



With anti-chain, stable junction box, in case the lid falls off.

### Junction Box Non-Threaded Temperature Transmitter MKT-130



There is a gasket inside, corrosion resistance, high temperature resistance, effectively isolated water vapor into, to prevent internal core damage, can be used for a long time without deformation

## Small Temperature Transmitter



Compact Temperature Transmitter **MKT-600**    Compact Digital Temperature Transmitter **MKT-610**

The compact temperature transmitter adopts full welding thread structure, which is convenient to install and reliable in structure, and can be used stably for a long time.



Petroleum Machinery



Boile



Natural Gas



Automatic Temperature Measurement and Control System

## Explosion-Proof Temperature Transmitter



Explosion-Proof Temperature Transmitter **MKTB-400**

Explosion-Proof Digital Temperature Transmitter **MKTB-410**

The explosion-proof temperature transmitter uses high-precision thermocouple and thermal resistance as the test components, and uses high-stability circuit to process the signal, so as to realize continuous temperature measurement and output quasi-signal of industrial control.



Petroleum Machinery



Boile



Natural Gas



Explosion-Proof



High Temperature Integrated  
Temperature Transmitter

**MKT-600L**



Medium and High  
Temperature Transmitter  
**MKT-600H**

High Temperature  
Digital Display  
Temperature Transmitter

**MKT-610L**



Medium and High Temperature  
Digital Display  
Temperature Transmitter

**MKT-610H**



# TEMPERATURE TRANSMITTER

Temperature Transmitter



The shell is made of stainless steel.



The utility model has the advantages of small size, fast thermal response, extremely high seismic and shock resistance performance, etc.



It is widely used in medium and high temperature liquid, steam pressure measurement and other fields