



Instrument Product Portfolio

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PRODUCTS

In HollySys, we provides a comprehensive range of instrument products which are widely used in industries such as electric power, petrochemicals, chemicals, construction materials, metallurgy, pulp and paper, pharmaceutical, environmental protection, and equipment manufacturing.

- Isolated Barrier
- Isolator
- Power Transmitter
- Surge Protector
- Intelligent Pressure Transmitter
- Pressure Instruments
- Temperature Instuments
- Throttling Elements
- Metal Tube Flowmeter
- Electromagnetic Flowmeter
- Magnetic Liquid Level

SERVICES

We seek improvement in the pursuit of customer satisfaction as well as the quality of services provided. In order to better meet the demands for our customers, we provides a full range of solutions and services based on safety, stability, comprehensive, energy saving, emission reduction and high efficiency to fulfill the criteria required for a successful production facility.



AM1000EX SERIES ISOLATED BARRIER

AM1011EX, AM1012EX, AM1013EX

Digital signal input isolated barrier can transfer the switch or proximity switch signal from hazardous area to safety area. This device has selectable line fault detect (LFD) indicating function and each channel of it can be setting output and input in-phase or reverse phase control mode.



AM1011EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 30mA @ 24V DC supply, 20mA output
Safe Area Output Relay Signal	Response Time: ≤ 10ms Drive Ability: 250V AC, 2A or 30V DC, 2A Load Type: Resistive Load
Hazardous Area Input	Input Signal: Switch, Proximity Detector Open Circuit Voltage: About 8V Short Circuit Current: About 8mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Location	Mounting in non-hazardous area and connected to the IS apparatus in zone 0 hazardous area.
Suitable IS Apparatus	Compliance with DIN19234 of NAMUR proximity switches, switches and other field equipment.
AM1012EX	
No. of Channels	2
Supply Voltage	20 ~ 35V DC
Current Consumption	\leq 40mA @ 24V DC supply, 20mA output
Safe Area Output Relay Signal	Response Time: ≤ 10ms Drive Ability: 250V AC, 2A or 30V DC, 2A Load Type: Resistive Load
Hazardous Area Input	Input Signal: Switch, Proximity Detector Open Circuit Voltage: About 8V Short Circuit Current: About 8mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Location	Mounting in non-hazardous area and connected to the IS apparatus in zone 0 hazardous area.
Suitable IS Apparatus	Compliance with DIN19234 of NAMUR proximity switches, switches and other field equipment.
AM1013EX	
No. of Channels	1/2
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 40mA @ 24V DC supply, 20mA output
Safe Area Output Relay Signal	Response Time: ≤ 10ms Drive Ability: 250V AC, 2A or 30V DC, 2A Load Type: Resistive Load
Hazardous Area Input	Input Signal: Switch, Proximity Detector Open Circuit Voltage: About 8V Short Circuit Current: About 8mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	Compliance with DIN19234 of NAMUR proximity switches, switches and other field equipment.

AM1021EX, AM1022EX

A loop powered module enables intrinsically safe devices such as solenoid valves, alarm transmitters and other lowpower loads located in the hazardous area to be controlled from the safe area. It allows the control switch to connect directly to the either side of power supply circuit.

AM1021EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 75mA @ 24V DC supply, 45mA output
Hazardous Area Input	Open Circuit Voltage: 22V ~ 24V Minimum Output Voltage: ≥ 12V @ 45mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	Solenoid valves, alarm transmitters and other lowpower loads
AM1022EX	
No. of Channels	2
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 160mA @ 24V DC supply, 45mA output
Hazardous Area Input	Open Circuit Voltage: 22V ~ 24V Minimum Output Voltage: ≥ 12V @ 45mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	Solenoid valves, alarm transmitters and other lowpower loads

AM1031EX, AM1032EX

2-wire HART transmitter, 3-wire transmitter and current source input isolated barrier provides isolated dc supplies for transmitters which located in hazardous area. It is able to transfer 4 to 20mA signal generated by the transmitter from hazardous area to safe area separately. It also allows bi-directional transmission of HART communication signals.

AM1031EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 65mA @ 24V DC supply, 20mA output
Safe Area Output	Current: 0/4 ~ 20mA, HART Digital Signal Load Resistance ≤ 550 Ω Load Resistance ≥ 250 Ω (HART) Voltage: 0/1 ~ 5V, HART Digital Signal Load Resistance ≥ 300k Ω
Hazardous-Area Input	Current: 0/4 ~ 20mA, HART Digital Signal Available Voltage: Open Circuit Voltage: ≤ 28V Voltage: ≥ 15.5V @ 20mA Normal Working Current: ≤ 25mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	2-wire HART transmitter, 3-wire transmitter and current source
AM1032EX	
No. of Channels	
No. of onalities	1/2
Supply Voltage	1/2 20 ~ 35V DC
Supply Voltage Current Consumption	1/2 20 ~ 35V DC ≤ 75mA @ 24V DC supply, 20mA output
Supply Voltage Current Consumption Safe Area Output	1/2 20 ~ 35V DC ≤ 75mA @ 24V DC supply, 20mA output Current: 0/4 ~ 20mA, HART Digital Signal Load Resistance ≥ 250 Ω (HART) Voltage: 0/1 ~ 5V, HART Digital Signal Load Resistance ≥ 330k Ω
Supply Voltage Current Consumption Safe Area Output Hazardous-Area Input	1/2 20 ~ 35V DC ≤ 75mA @ 24V DC supply, 20mA output Current: 0/4 ~ 20mA, HART Digital Signal Load Resistance ≥ 300 Ω Load Resistance ≥ 250 Ω (HART) Voltage: 0/1 ~ 5V, HART Digital Signal Load Resistance ≥ 330k Ω Current: 0/4 ~ 20mA, HART Digital Signal Available Voltage: Open Circuit Voltage: ≤ 28V Voltage: ≥ 15.5V @ 20mA Normal Working Current: ≤ 25mA
Supply Voltage Current Consumption Safe Area Output Hazardous-Area Input Electromagnetic Compatibility	1/2 20 ~ 35V DC ≤ 75mA @ 24V DC supply, 20mA output Current: 0/4 ~ 20mA, HART Digital Signal Load Resistance ≥ 300 Ω Load Resistance ≥ 250 Ω (HART) Voltage: 0/1 ~ 5V, HART Digital Signal Load Resistance ≥ 330k Ω Current: 0/4 ~ 20mA, HART Digital Signal Available Voltage: Open Circuit Voltage: ≤ 28V Voltage: ≥ 15.5V @ 20mA Normal Working Current: ≤ 25mA According to IEC 61326-1 (GB/T 18268)

AM1041EX

An isolated barrier that transmits 4 to 20mA signals to the Ex area in an intrinsically safe manner. It accepts 4 to 20mA floating signals from a safe area controller to drive a valve positioned, electric converter and so on. The analog value can be overlayed with digital (HART) communication signals on the Ex or non-Ex side and transmitted bidirectionally.

AM1041EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 50mA @ 24V DC supply, 20mA output
Safe Area Input	Current: 0/4 ~ 20mA, HART Digital Signal Voltage Drop: ≤ 2V
Hazardous-Area Input	Current: 0/4 ~ 20mA, HART Digital Signal Load Resistance ≤ 800 Ω Load Resistance ≥ 250 Ω (HART) Voltage: 0/1 ~ 5V, HART Digital Signal Load Resistance ≥ 300k Ω
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	2-wire valve positioner electropneumatic converter

AM1051EX, AM1052EX

An isolated barrier that converts thermocouple signal and millivolt signal mounted in hazardous area into 4 to 20mA current for driving a safe-area load. It is an intelligent instrument with the function of auto cold-end compensation. The measure range and thermocouple division are programable through computer.

AM1051EX			
No. of Channels	1		
Supply Voltage	20 ~ 35V DC		
Current Consumption	≤ 35mA @ 24V DC supply, 20mA output		
Safe Area Output	Current: 4 ~ 20mA; Load Resistance: RL 300 Ω Voltage: 1 ~ 5V; Load Resistance: RL ≥ 20k Ω		

Hazardous-Area Input	Signal Type		Signal Range	Min. Span	Accuracy		
		Т	-200°C ~ +400°C	50°C	0.5°C/0.1%		
		E	-200°C ~ +900°C	50°C	0.5°C/0.1%		
		J	-200°C ~ +1200°C	50°C	0.5°C/0.1%		
		К	-200°C ~ +1372°C	50°C	0.5°C/0.1%		
	10	N	200°C ~ +1300°C	50°C	0.5°C/0.1%		
		R	-40°C ~ +1768°C	500°C	1.5°C/0.1%		
		S	-40°C ~ +1768°C	500°C	1.5°C/0.1%		
		В	+320°C ~ +1820°C	500°C	1.5°C/0.1%		
	m	۱V	-100mV ~ +100mV	10mV	20uV/0.1%		
Electromagnetic Compatibility	According to I	EC 61326-1 (GB/	T 18268)				
Suitable IS Apparatus	T, E, J, K, N, R	, S, B and mV sig	gnal				
AM1052EX							
No. of Channels	1/2	1/2					
Supply Voltage	20 ~ 35V DC	20 ~ 35V DC					
Current Consumption	≤ 55mA @ 24V DC supply, 20mA output						
Safe Area Output	Current: 4 ~ 20 Voltage: 1 ~ 5\	Current: 4 ~ 20mA; Load Resistance: RL 300 Ω Voltage: 1 ~ 5V; Load Resistance: RL ≥ 20k Ω					
Hazardous-Area Input	Signal Type Signal Range Min. Span Accuracy						
		Т	-200°C ~ +400°C	50°C	0.5°C/0.1%		
		E	-200°C ~ +900°C	50°C	0.5°C/0.1%		
		J	-200°C ~ +1200°C	50°C	0.5°C/0.1%		
	тс	К	-200°C ~ +1372°C	50°C	0.5°C/0.1%		
		Ν	200°C ~ +1300°C	50°C	0.5°C/0.1%		
		R	-40°C ~ +1768°C	500°C	1.5°C/0.1%		
		S	-40°C ~ +1768°C	500°C	1.5°C/0.1%		
		В	+320°C ~ +1820°C	500°C	1.5°C/0.1%		
	m	mV -100mV ~ +100mV 10mV 20uV/0.1%					
Electromagnetic Compatibility	According to I	EC 61326-1 (GB/	T 18268)				
Suitable IS Apparatus	T, E, J, K, N, R, S, B and mV signal						

AM1061EX, AM1062EX

Solated barrier that can convert signals from 2-wire, 3-wire RTDS signal mounted in hazardous area into 0/4 ~ 20mA current or 0/1 ~ 5V voltage. It can be configured by PC. The measure range and thermal resistance division are programable through computer.

AM1061EX						
No. of Channels	1					
Supply Voltage	20 ~ 35V DC	20 ~ 35V DC				
Current Consumption	≤ 35mA @ 24V DC supply, 20	ImA output		/////		
Safe Area Output	Current: 4 ~ 20mA; Load Res Voltage: 1 ~ 5V; Load Resista	Current: 4 ~ 20mA; Load Resistance: R 300 Voltage: 1 ~ 5V; Load Resistance: RL \ge 20k Ω				
Hazardous Area Input	Signal Type	Signal Range	Min. Span	Accuracy		
	Pt100	-200°C ~ +850°C	20°C	0.2°C/0.1%		
	Cu50	-50°C ~ +150°C	20°C	0.2°C/0.1%		
	Cu100	-50°C ~ +150°C	20°C	0.2°C/0.1%		
Electromagnetic Compatibility	According to IEC 61326-1 (G	According to IEC 61326-1 (GB/T 18268)				
Suitable IS Apparatus	Pt100, Cu50, Cu100					
AM1062EX	·					
No. of Channels	1/2	1/2				
Supply Voltage	20 ~ 35V DC	20 ~ 35V DC				
Current Consumption	≤ 55mA @ 24V DC supply, 20mA output					
Safe Area Output	Current: 4 ~ 20mA; Load Resistance: R 300 Voltage: 1 ~ 5V; Load Resistance: RL \geq 20k Ω					
Hazardous Area Input	Signal Type	Signal Range	Min. Span	Accuracy		
	Pt100	-200°C ~ +850°C	20°C	0.2°C/0.1%		
	Cu50	-50°C ~ +150°C	20°C	0.2°C/0.1%		
	Cu100	-50°C ~ +150°C	20°C	0.2°C/0.1%		
Electromagnetic Compatibility	According to IEC 61326-1 (G	B/T 18268)				
Suitable IS Apparatus	Pt100, Cu50, Cu100					

AM2000EX SERIES ISOLATED BARRIER

AM2012EX

Digital signal input isolated barrier that transfers the switch or proximity switch signal from hazardous area to safety area. This device has selectable line fault detect (LFD) indicating function and each channel of it can be setting output & input in-phase or reverse phase control mode. It requires independent power supply.

AM2012EX	
No. of Channels	2
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 45mA @ 24V DC supply, 20mA output
Safe Area Output Relay Signal	Response Time: ≤ 10ms Drive Ability: 250V AC, 2A or 30V DC, 2A Load Type: Resistive Load
Hazardous Area Input	Current: 4 ~ 20mA, HART Digital Signal Load Resistance ≤ 800 Ω Load Resistance ≥ 249 Ω (HART)
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	Compliance with DIN19234 of NAMUR proximity switches, switches and other field equipment.

AM2031EX

An isolated barrier that transmits 4 to 20mA signals to the Ex area in an intrinsically safe manner. It accepts 4 to 20mA floating signals from a safearea controller to drive a valve positioned, electric converter and so on. The analog value can be overlayed with digital (HART) communication signals on the Ex or non-Ex side and transmitted bidirectionally.

AM2031EX	
No. of Channels	2
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 45mA @ 24V DC supply, 20mA output
Safe Area Input	Current: 4 ~ 20mA, HART Digital Signal Voltage Drop: ≤ 2V
Hazardous Area Input	Input Sigal: Switch, Proximity Detector Open Circuit Voltage: About 8V Short Circuit Current: About 8mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	2-wire valve positioner electropneumatic converter
	/ / / / / / / / / / / / / / / /

AM2041EX

2-wire HART transmitter, 3-wire transmitter, current source input isolated barrier that provides isolated dc supplies for transmitters which located in hazardous area. It is able to transfer 4 to 20mA signal which generated by the transmitter form hazardous area to safe area separately, it also allows bi-directional transmission of HART communication signals.

AM2041EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 60mA @ 24V DC supply, 20mA output
Safe Area Input	Current: 4 ~ 20mA, HART Digital Signal Load Resistance ≤ 450 Ω Load Resistance ≥ 249 Ω (HART)
Hazardous Area Input	Current: 4 ~ 20mA, HABT Digital Signal Available Voltage: Open Circuit Voltage: ≤ 28V Voltage: ≥ 16V @ 20mA Normal Working Current: ≤ 25mA
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable IS Apparatus	2-wire HART transmitter, 3-wire transmitter, current source

AM2051EX

An isolated barrier that can convert thermocouple signal, millivolt signal mounted in hazardous area into 4 to 20mA current for driving a safe-area load. It is an intelligent instrument with the function of auto cold-end compensation. The measure range and thermocouple division are programable through computer.

AM2051EX	
No. of Channels	1
Supply Voltage	20 ~ 35V DC

Current Consumption	≤ 40mA @ 24V DC supply, 20mA output				
Safe Area Output	Current: 4 ~ 20mA; Load Resistance: RL 550 Ω				
Hazardous Area Input	Signal Type		Signal Range	Min. Span	Accuracy
		Т	-200°C ~ +400°C	50°C	0.5°C/0.1%
		E	-200°C ~ +900°C	50°C	0.5°C/0.1%
		J	-200°C ~ +1200°C	50°C	0.5°C/0.1%
	тс	К	-200°C ~ +1372°C	50°C	0.5°C/0.1%
		N	200°C ~ +1300°C	50°C	0.5°C/0.1%
		R	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		S	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		В	+320°C ~ +1820°C	500°C	1.5°C/0.1%
	mV		-100mV ~ +100mV	10mV	20uV/0.1%
Electromagnetic Compatibility	According to I	According to IEC 61326-1 (GB/T 18268)			
Suitable Location	Mounting in non-hazardous area, and connected to the IS apparatus in zone 0 hazardous area.				
Suitable IS Apparatus	T, E, J, K, N, R, S, B and mV signal				

AM2061EX

An isolated barrier that converts signals from 2-wire, 3-wire RTDS signal mounted in hazardous area into 4 to 20mA. It can be configured by PC. The measure range and thermal resistance division are programable through computer.

AM2061EX					
No. of Channels	1	1			
Supply Voltage	20 ~ 35V DC				
Current Consumption	\leq 40mA @ 24V DC supply, 20m	nA output			
Safe Area Output	Current: 4 ~ 20mA; Load Resis	Current: 4 ~ 20mA; Load Resistance: RL 550 Ω			
Hazardous Area Input	Signal Type	Signal Range	Min. Span	Accuracy	
	Pt100	-200°C ~ +850°C	20°C	0.2°C/0.1%	
	Cu50	-50°C ~ +150°C	20°C	0.2°C/0.1%	
	Cu100	-50°C ~ +150°C	20°C	0.2°C/0.1%	
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)				
Suitable Location	Mounting in non-hazardous area, and connected to the IS apparatus in zone 0 hazardous area.				
Suitable IS Apparatus	Pt100, Cu50, Cu100				

AMG1000 SERIES ISOLATOR

AMG1000 series ultra-thin signal isolator isolates power sources, inputs and outputs, and effectively addresses field interference issues faced by industrial automation control system, ensuring the stable and reliable operation of the system. It saves space as it is only 7.6mm thick, it is designed to save energy, and operate reliably for long periods of time after intensive installation.



AMG1031, AMG1031H, AMG1032

An isolator that supplies power to 2-wire or 3-wire transmitters and transfers 4 to 20mA signal from transmitter.

AMG1031	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 60mA @ 24V DC supply, 20mA output
Input	Current: 0/4 ~ 20mA Available Voltage: ≥ 19V Maximum Current: < 35mA
Output	Current: $0/4 \sim 20\text{mA}$ Maximum Current: $< 35\text{mA}$ Load Resistance: $\le 550 \Omega$ Voltage: $0/1 \sim 5V$ Load Resistance $\ge 330\text{k} \Omega$
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	2-wire transmitter, 3-wire transmitter, current source
AMG1031H	
No. of Channels	1
Supply Voltage	20 ~ 35V DC

Current Consumption	\leq 60mA @ 24V DC supply, 20mA output
Input	Current: 0/4 ~ 20mA, HART Available Voltage: ≥ 19V Maximum Current: < 35mA
Output	Current: $0/4 \sim 20mA$, HART Maximum Current: $< 35mA$ Load Resistance: $\leq 550 \Omega$ HART, Load Resistance $\leq 250 \Omega$ Voltage: $0/1 \sim 5V$ Load Resistance $\geq 330k \Omega$
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	2-wire transmitter, 3-wire transmitter, current source
AMG1032	
No. of Channels	1/2
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 75mA @ 24V DC supply, 20mA output
Input	Current: 0/4 ~ 20mA Impedance: ≤ 50 Ω Available Voltage: ≥ 17.5 ~ 25V, Current < 35mA Maximum Current: < 35mA
Output	Current: $0/4 \sim 20mA$ Load Resistance: RL $\leq 300 \Omega$ Voltage: $0/1 \sim 5V$, $0/2 \sim 10V$ Load Resistance: RL $\geq 330k \Omega (0/1 \sim 5V)$ Load Resistance: RL $\geq 660k \Omega (0/2 \sim 10V)$
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	2-wire transmitter, 3-wire transmitter, current source

AMG1041, AMG1041H

An isolator that supplies transfers a DC 0/4 to 20mA signal from the locale.

AMG1041	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 50mA @ 24V DC supply, 20mA output
Input	Current: 0/4 ~ 20mA Voltage Drop: ≤ 2V Maximum Current: < 30mA
Output	Current: $0/4 \sim 20mA$ Load Resistance: $\leq 680 \Omega$ Maximum Current: $< 30mA$ Voltage: $0/1 \sim 5V$ Load Resistance $\geq 330k \Omega$
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	2-wire HART transmitter, 3-wire transmitter, current source
AMG1041H	
No. of Channels	1 / / / / / / /////////////////////////
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 50mA @ 24V DC supply, 20mA output
Input	Current: 0/4 ~ 20mA, HABT Voltage Drop: ≤ 2V Maximum Current: < 30mA
Output	Current: $0/4 \sim 20mA$, HART Load Resistance: $\leq 680 \Omega$ Maximum Current: $< 30mA$ HART, Load Resistance $\leq 250 \Omega$ Voltage: $0/1 \sim 5V$ Load Resistance $\geq 330k \Omega$
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	2-wire valve positioner, electrical converter

AMG1051D

Temperature transmitter that converts a low-level signal from RTD and TC mounted into 0/4 to 20mA current or 0/1 to 5V voltage. The signal isolated and transferred through output side. It is an intelligent instrument with the function of auto cold-end-compensation. The scale division and range of RTD and TC are set through PC configuration, as well as the upper/lower limit and current value of disconnection alarm setting.

AMG1051D	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Current Consumption	≤ 35mA @ 24V DC supply, 20mA output

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Safe Area Output	Current: 4 ~ 20mA; Load Resistance: RL 550 Ω				
Input	Signal Type		Signal Range	Min. Span	Accuracy
	тс	Т	-200°C ~ +400°C	50°C	0.5°C/0.1%
		E	-200°C ~ +900°C	50°C	0.5°C/0.1%
		J	-200°C ~ +1200°C	50°C	0.5°C/0.1%
		K	-200°C ~ +1372°C	50°C	0.5°C/0.1%
		N	200°C ~ +1300°C	50°C	0.5°C/0.1%
		R	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		S	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		В	+320°C ~ +1820°C	500°C	1.5°C/0.1%
	mV		-100mV ~ +100mV	10mV	20uV/0.1%
		Pt100	-200°C ~ +850°C	20°C	0.2°C/0.1%
	RTD	Cu50	-50°C ~ +150°C	20°C	0.2°C/0.1%
		Cu100	-50°C ~ +150°C	20°C	0.2°C/0.1%
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)				
Suitable Apparatus	2-wire RTD, 3-wire RTD, TC				

AMG1051H

Loop-powered temperature transmitter that converts thermal resistance, thermal couple and mV signal field into 4 to 20mA current for driving load. It has sensor breakage alarm indicator function and the TC input has cold junction compensation function. It is intelligent and indexing number of TC and range can be configured through computer.

AMG1051H					
No. of Channels	1				
Supply Voltage	9 ~ 30V DC				
Input	Signal Type Signal Range Min. Span Accuracy			Accuracy	
		Т	-200°C ~ +400°C	50°C	0.5°C/0.1%
		E	-200°C ~ +900°C	50°C	0.5°C/0.1%
		J	-200°C ~ +1200°C	50°C	0.5°C/0.1%
	TC	К	-200°C ~ +1372°C	50°C	0.5°C/0.1%
	10	Ν	200°C ~ +1300°C	50°C	0.5°C/0.1%
		R	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		S	-40°C ~ +1768°C	500°C	1.5°C/0.1%
		В	+320°C ~ +1820°C	500°C	1.5°C/0.1%
	mV		-100mV ~ +100mV	10mV	20uV/0.1%
	RTD	Pt100	-200°C ~ +850°C	20°C	0.2°C/0.1%
		Cu50	-50°C ~ +150°C	20°C	0.2°C/0.1%
		Cu100	-50°C ~ +150°C	20°C	0.2°C/0.1%
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)				
Suitable Apparatus	2-/3-wire thermal resistance, thermal couple and mV signal				

AMG1055

An isolator that frequency signal will be set according to the user to convert the linear range 4 to 20mA (or 0 to 20mA) output. The product has one relay alarm output.

AMG1055	
No. of Channels	1
Supply Voltage	20 ~ 35V DC
Input	Signal Type: 1) 3-wire PNP/NPN Sensor Output: Sensor Distribution: 14V DC, Current: < 20mA Input Frequency: 0.1Hz ~ 100KHz 2) Frequency: 0.1Hz ~ 100KHz Maximum Input Voltage: 30Vp - p Minimum Input Level: 2V, (2Hz ~ 100KHz) 2V, (0.1Hz ~ 100KHz) 3) Proximity Switch, Dry Contact Switch Input: Sensor Distribution: ≈ 8V; Short - Circuit Current: ≈ 8mA Input Frequency: 0.1Hz ~ 100KHz
Output	Current: $0 \sim 20$ mA, $4 \sim 20$ mA Load Resistance: $\leq 400 \Omega$ Voltage: $0 \sim 5V / 1 \sim 5V$ Load Resistance ≥ 300 k Ω
Electromagnetic Compatibility	According to IEC 61326-1 (GB/T 18268)
Suitable Apparatus	Dry contact or DIN19234 standard NAMUR proximity switch input field devices (including the intrinsically safe type pressure switch, temperature switches, liquid level switch). Level pulse signal, 3-wire system PNP/NPN sensor output, incrementa encoder.

AD10 SERIES POWER TRANSMITTER

Performance	
Input Signal	Current: 0 ~ 60A AC/DC Voltage: 0 ~ 500VAC / 1000VDC
Output	4 ~ 20mA / 0 ~ 20mA / 1 ~ 5V / 0 ~ 5V / 0 ~ 10V
Power Supply	20 ~ 30VDC / 90 ~ 260VDC
Electromagnetic Compatibility	Meet GB / T18268 Requirements (equivalent to IEC61326-1)
Operating Temperature	-20°C~60°C



AML100 SERIES SURGE PROTECTOR

Performance	
Туре	Signal type, DC power supply type, AC power type
Loading Method	DIN35mm standard guide rail
Maximum Discharge Current	Signal type, DC power supply type up to 10kA, AC power type up to 20kA
Protection Equipment	Thermocouple, thermal resistance, RS485 signal, two-wire / three-wire transmitter, switch, frequency, 24VDC electrical equipment, telephone / network / video interface;
Operating Temperature	-20°C~60°C



AT3000 INTELLIGENT PRESSURE TRANSMITTER

AT3000 Intelligent Pressure Transmitter is an on-site measuring instrument with microprocessor and it is applicable for communication with HART protocol. AT3000 with advanced digital technology and frequency shift keying (FSK) technology used has improved the integral performance and the liability, which ease the connection between the site and the control room.

Performance	
Pressure	Up to 40MPa, differential pressure measurement range of 300Pa ~ 6MPa
Accuracy Class	Up to 0.1 level
Far Differential Transmitter	Measure medium temperature, up to -40°C~ +315°C
Rich Filling Liquid	Silicone oil, fluorine oil, high temperature silicone oil
Variety of isolation diaphragm optional	316L, Hastelloy C, Tantalum, PFA coating, F46 coating, gold plating, etc. Isolated electronic components, anti-electromagnetic interference, anti-over-voltage capability, communication performance greatly improved integrated sensor module with temperature sensor, anti-vibration, anti-moisture, anti-ambient temperature change ability





Pressure / Differential Pressure Transmitter



Direct Pressure / Absolute Pressure Transmitter



Double Flange Far Differential Pressure Transmitter



Flange Level Transmitter

AT4000 INTELLIGENT PRESSURE TRANSMITTER

Performance	
Pressure	Up to 40MPa, differential pressure measurement range of 50Pa \sim 1MPa
Accuracy Class	Up to 0.05 level
Far Differential Transmitter	Measure medium temperature, up to -40°C~ +315°C
Rich Filling Liquid	Silicone oil, fluorine oil, high temperature silicone oil
Variety of isolation diaphragm optional	316L, Hastelloy C, tantalum, PFA coating, F46 film, gold and so on isolated electronic components, anti-electromagnetic interference, anti-over-voltage capability, communication performance greatly improved integrated sensor module with temperature sensor, anti-vibration, anti-moisture, anti-ambient temperature change ability. Optional stainless steel housing. Optional LCD display header for backlighting



Differential Pressure Transmitter



Direct Pressure / Absolute Pressure Transmitter





Flange Level Transmitter

Double Flange Far Differential Pressure Transmitter

NORMAL PRESSURE GAUGE, PRESSURE VACUUM GAUGE, VACUUM GAUGE

The system is made up of junction and spring tube because the change of measured pressure effect the movement to free ends of spring tube, drives needle on turnable gear circling by the connection rod, then the dial will display the corresponding pressure value.



Main Technical Indicator						
Model		Y-60 YZ-60 Z-60	Y-100 YZ-100 Z-100	Y-150 YZ-150 Z-100	Y-200 YZ-200 Z-200	Y-250 YZ-250 Z-250
Norminal Di	ameter	60	100	150	200	250
Connection	Thread	M14 × 1.5	M20 × 1.5			
Accuracy Class		2.5	1.6	1.0; 1.6		
0	Y-	0 ~ 0.1; 0 ~ 0.16; 0 ~ 0.25; 0 ~ 0.4; 0 ~ 0.6; 0 ~ 1, 0 ~ 1.6; 0 ~ 2.5; 0 ~ 4; 0 ~ 6; 0 ~ 10; 0 ~ 16; 0 ~ 25; 0 ~ 4; 0 ~ 6;				
YZ- -0.1 ~ 0.06; -0.1 ~ 0.15; 0.1 ~ 0.3; -0.1 ~ 0.5 -0.1 ~ 0.9; -0.1~1.5; -0.1 ~ 2.4			\mathbb{N}			
Ra	Z-	-0.1 ~ 0				
Operation Circumstance		-40 ~ 70°C, the relative humidity is 85% or smaller.				
Temperaure Affection		The error of using temperature is 20±5°C				

Y-B SERIES S.S PRESSURE GAUGE

Main Technical Indicator				
Model	Measuring Range	Accuracy Class		
Y-60BF Y-60ZBF	0 ~ 0.6, 1, 1.6, 2.5, 4, 6, 10, 16, 25, 40, 60 -0.1 ~ 0.5, 0.9, 1.5, 2.4	2.5		
Y-100BF Y-100ZBF Y-150BF Y-1S0ZBF	0 ~ 0.1, 0.16, 0.25, 0.4, 0.6, 1, 1.6, 2.5, 4, 6, 10, 16 25, 40, 60 -0.1 ~ 0, 0.06, 0.15, 0.3, 0.5, 0.9, 1.5, 2.4	1.0 1.6		
Operation Circumstance	-25 ~ 70°C (filling liquid in sheath) -40 ~ 70 (non filling liquid in sheath)			
Temperaure Affection	The error of using temperature is 20±5°C			

The gauge is made up of pressure-conducting system, gear turning parts, display parts and sheath. The structure of sheath is sealed style and it can protect the inner parts from circumstance affection and dirt.



YN SERIES S.S PRESSURE GAUGE

This series is suitable for the working circumstance with mechanical vibration and medium pulse. It can be used to measure the liquid, gas and steam mediums without explosion danger and crystallization.



Main Technical Indicator					
Model	YN-60	YN-100	YN-150	YN-200	
Norminal Diameter	60	100	150	200	
Connection Thread	M14 × 1.5	M20 × 1.5			
Accuracy Class	2.5	1.6	1.0: 1.6		
Measuring Range	$\begin{array}{l} 0 \sim 0.1; \ 0 \sim 0.16; \ 0 \sim 0.25; \ 0 \sim 0.4; \ 0 \sim 0.6; \\ 0 \sim 1, \ 0 \sim 1.6; \ 0 \sim 2.5; \ 0 \sim 4; \ 0 \sim 6; \\ 0 \sim 10; \ 0 \sim 16; \ 0 \sim 25; \ 0 \sim 40; \ 0 \sim 60; \end{array}$				
Vibration Resisting Class	V.H.4				
Operation Circumstance	Temperature: -40 ~ 70°C Relative Humidity: ≤ 85%				
Working Pressure	Static Load: Measure the upper limit Alternating Load: Measure 0.9 times of upper limit				
Temperaure Affection	The error of using temperature is 20±5°C				

Yx, YXC SERIES ELECTRIC CONTACT PRESSURE GAUGE

Main Technical	Main Technical Indicator				
Model		YX-100 YXC-100 YXN-100	YX-150 YXC-150 YXN-150		
Norminal Diameter	r	100	150		
Connection Thread		M20 × 1.5	M20 × 1.5		
Accuracy Class		1.6	1.6		
g Range	YX-	$\begin{array}{c} 0 \sim 0.1; \ 0 \sim 0.16; \ 0 \sim 0.25; \ 0 \sim 0.4; \ 0 \sim 0.6; \\ 0 \sim 1, \ 0 \sim 1.6; \ 0 \sim 2.5; \ 0 \sim 4; \ 0 \sim 6; \\ 0 \sim 10; \ 0 \sim 16; \ 0 \sim 25; \ 0 \sim 40; \ 0 \sim 60; \end{array}$			
asurinç	үхс	-0.1 ~ 0.06; -0.1 ~ 0:15; 0.1 ~ 0.3; -0.1 ~ 0.5 -0.1 ~ 0.9; -0.1 ~ 1.5; -0.1 ~ 2.4			
Me	YXN	-0.1 ~ 0			
Performance of Vibration Resisting		YX, YXC Series: V.H.3 Class YXN Series: V.H.4 Class			
Operation Circumstance		YX, YXC Series: -40 ~ 70°C YXN Series: -25 ~ 55°C			

Under the pressure, the needle of basic pressure gauge will raise, when the needle contact to the upper limit, a signal will be transferred to control system, this will make the resource pressure stop working. On the contrary, when the active need contact to the lower limit, signal will be transferred to control system, this will make resource pressure system add pressure to the system again.

20 10 We Haster 30 0 We Go

YTZ-150 SERIES REMOTE CONTROL PRESSURE GAUGE

The gauge is made up of a spring tube pressure and a slip line resistance transmitter. The resistance transmitter is fixed on a turnable gear, when the fan-shaped gear appear deflexion, the electric brush of resistance transmitter will reflex accordingly. This will transfer the change of measured pressure to the change of resistance and transmit the data to the second gauge, display the corresponding data accordingly.



Main Technic Indicator			
Model		YTZ-150	
Norminal Diame	eter	150	
Connection Thr	ead	M14 × 1.5	
Accuracy Class		2.5	
Measuring Range	YTZ	-0.1 ~ 0.06; -0.1 ~ 0.15; -0.1 ~ 0.3; -0.1 ~ 0.5; -0.1 ~ 0.9; -0.1 ~ 1.5; -0.1 ~ 2.4	
Circumstance		Temperature: -40 ~ 70°C Relative Humidity: ≤ 85%	
Electric Parameter		Full Resistance FullSpan: 0 ~ 400 Ω Standard Range: ≤ 30 Ω Full Upper Limit: ≤ 370 Ω Outer Added Voltage: ≤ 6V	
Accuracy Class		1.5	

YP SERIES DIAPHRAGM PRESSURE GAUGE, YPF SERIES CAUTERIZATION-RESISTING DIAPHRAGM PRESSURE GAUGE

The gauge is made up of measurement system, turnable display parts and crust. The crust is made up of bespatterment proof structure, it has good seal performance and protect the inside from bespattering.

Main Technical Indicator	
Accuracy Class	2.5
Operation Circumstance	Temperature -40 ~ 70°C Relative Humidity: ≤ 85%
Temperature Affection	When the difference is $20 \pm 5^{\circ}$ C, the additional error should be 0.4% / 10°C or smaller.



YE SERIES GAUGES WITH CAPSULE ELEMENTS

Under the pressure from measured medium, the free end will raise transfiguration accordingly, referring to the connection rod to make the turnable part circle and blow up, then the needle will display the data.



Main Technical Indicator						
Turne	Scale Range			Accuracy		
Type	Positive Pressure	Negative Pressure	Both	Class		
YE-75 YE-100 YE-150	$\begin{array}{l} 0 \sim 1.6 \\ 0 \sim 2.5 \\ 0 \sim 4 \\ 0 \sim 6^{*} \\ 0 \sim 10^{\circ} \\ 0 \sim 16^{*} \\ 0 \sim 25^{*} \\ 0 \sim 40^{*} \end{array}$	$\begin{array}{c} -1.6 \sim 0 \\ -2.5 \sim 0 \\ -4 \sim 0 \\ -6 \sim 0 \\ -10 \sim 0 \\ -16 \sim 0 \\ -25 \sim 0 \\ -40 \sim 0 \end{array}$	$\begin{array}{c} -0.8 \sim +0.8 \\ -1.2 \sim +1.2 \\ -2 \sim +2 \\ -3 \sim +3 \\ -5 \sim +5 \\ -8 \sim +8 \\ -12 \sim +12 \\ -20 \sim +20 \end{array}$	2.5		

YE-100 SERIES S.S CAPSULE GAUGE

Main Technical Indicator			
Accuracy Class	2.5		
Measuring Range	0 ~ 2.5; 0 ~ 4; 0 ~ 6; 0 ~ 10; 0 ~ 16; 0 ~ 25; 0 ~ 40; -2.5 ~ 0; -4 ~ 0; -6 ~ 0; -10 ~ 0; -16 ~ 0; -25 ~ 0; -40 ~ 0; -2 ~ 2; -3 ~ 3; -5 ~ 5; -8 ~ 8; -12 ~ 12; -20 ~ 20		
Operation Circumstance	Temperature -25 ~ +55°C Relative Humidity: ≤ 80%		
Temperature Affection	When the difference is 20 \pm 5°C, the additional error should be 0.4% / 10°C or smaller.		

Under the pressure from measured medium, the free end will raise transfiguration accordingly, referring to the connection rod to make the turnable part circle and blow up, and the needle will display the data. There is protection device to prevent the capsule from transfiguration when over loading and there is zero adjustment device which can adjust zero point conveniently.

YM SERIES DIAPHRAGM SEAL PRESSURE GAUGE

When the pressure of measured medium affect the diaphragm, which make the diaphragm transfiguration, and then compress the sealed liquid in pressure measuring system, pressure is formed. When the rigidity of diaphragm is small enough, it will be very small as well, the pressure which the pressure measuring system formed will be very near to the pressure of measured mediums.



SHEATHED THERMOCOUPLE

The sheathed thermocouple is made up of conductor, high temperature insulation oxidized magnesium tube and 1Cr18Ni9Ti stainless steel protection tube, through many integral pullings. The basic structure is mainly made up of connector box, connection and sheathed thermocouple, connected with various installation fixing devices.



Measuring Range & Tolerance						
		Tolerance Class				
Type	Graduation	I	1		II	
51		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range	
	K	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRINK	n	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRINK	IN	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
MDEK	_	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WREK	E	±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900	
WDEK		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRFK	J	±0.004 t	375 ~ 750	±0.0075 t	333 ~ 750	
MDOK	-	±0.5°C	-40 ~ +125	±1°C	-40 ~ +133	
WRCK		±0.004 t	125 ~ 350	±0.0075 t	133 ~ 1000	
		±1°C	0 ~ +1100	±1.5°C	0 ~ 600	
WRPK	S	±[1+0.003 (t-1100)]	1100 ~ 1600	±0.0025 t	600 ~ 1600	

Measuring Range & Tolerance						
		Tolerance Class				
Туре	Graduation	I		П		
		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range	
WON	K	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
	'RIN K	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
WDM	N	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
		±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
WDE	_	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WHE		±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900	
WDE		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRF	J	±0.004 t	375 ~ 750	±0.0075 t	333 ~ 750	
WDC	т	±0.5°C	-40 ~ +125	±1°C	-40 ~ +133	
WhO		±0.004 t	125 ~ 350	±0.0075 t	133 ~ 1000	

ASSEMBLY THERMOCOUPLE

The basic structure is mainly made up of connection box, connection and sheathed thermocouple, connected with various installation fixing devices.

SHEATHED THERMAL RESISTANCE

The basic structure of is mainly made up of connection box, connection and sheathed thermocouple, connected with various installation fixing devices.



Measuring Range & Tolerance						
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance		
WZDK	D+100	200 . 450	Class A	±(0.15+0.002 t)		
WZFR	FLIOU	-200~+450	Class B	±(0.30+0.005 t)		

Measuring Range & Tolerance						
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance		
WZD	Duton	000 450	Class A	±(0.15+0.002 t)		
WZP	PLIOU	-200~+450	Class B	±(0.30+0.005 t)		
wzc	Cu50 Cu100	-50 ~ +150	-	±(0.30+0.00 t)		

ASSEMBLY THERMAL RESISTANCE

When the temperature of object changes, the resistance will change accordingly. When the resistance value changes, the working meter will display relevant temperature.

EXPLOSION-PROOF THERMOCOUPLE / THERMAL RESISTANCE

Explosion-proof thermocouple / thermal resistance is making use of the clearance principle to design the connection box and other components with enough strength, and it seal all components which has dangers as fire arc, and dangerous temperature in the connection box.



Measu	uring Range 8	Tolerance of	Thermocouple	e			
		Tolerance Cla	Tolerance Class				
Type	Graduation	I		П			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range		
	K	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
		±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200		
	N	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
VVHIVI	IN	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200		
MDE	-	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
WRE		±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900		
WDE		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
WRF	J	±0.004 t	375 ~ 750	±0.0075 t	333 ~ 750		
MDO	-	±0.5°C	-40 ~ +125	±1°C	-40 ~ +133		
WRC		±0.004 t	125 ~ 350	±0.0075 t	133 ~ 350		
Measu	uring Range 8	Tolerance of	Thermal Resis	stance			
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance			
	DT100	000 . 500	Class A	±(0.15+0.002	t)		
vv∠P	PIIOU	-200 ~ +500	Class B	+(0.30+0.005 t)			

Measuring Range & Tolerance of Thermocouple								
		Tolerance CI	Tolerance Class					
Туре	Graduation	1		Ш				
		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range			
MON	1Z	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333			
WRN	K	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200			
		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333			
WRE	E	±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900			
Measu	uring Range &	Tolerance of	Thermal Resi	istance				
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance				
W/7D	DT100	000 . 500	Class A	±(0.15+0.002	t)			
VVZP	PIIUU	-200 ~ +500	Class B	±(0.30+0.005	5 t)			
WZC	Cu50	-50 ~ +150	-	±(0.30+0.006	δ t)			

POWER STATION THERMOCOUPLE / THERMAL RESISTANCE

The two electrodes of sheathed thermocouple are made of different conductor materials. When there is temperature difference betweeen measuring and reference end, there will be hydroelectric potential, then the meter shows the corresponding temperature of the hydroelectric potential.



THERMOCOUPLE / THERMAL RESISTANCE WITH THERMOWELL

It is applied to steam pipe, furnace and other occasions that have request on temperature, pressure and flow speed.



Meas	uring Range &	Tolerance of Th	ermocouple		<u> </u>
		Tolerance Class			
Type	Graduation	1		n \	
		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range
	K	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333
		±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200
MDE	-	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333
WRE	E	±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900
Meas	uring Range &	Tolerance of Th	ermal Resist	ance	
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance	
	DT100	200 500	Class A	±(0.15+0.002	t)
VVZP	PTIOU	-200~+500	Class B	±(0.30+0.005	t)
WZC	Cu50 Cu100	-50 ~ +150	-	±(0.30+0.006	t)

FURNACE TOP THERMOCOUPLE

It is applied to the top of power plant furnace and other occasions in which temperature is measured from distance or high voltage.



Type & Specification									
Tuno	Graduation	Temperature	ND	Flow	Specification				
Type	Graduation	Range		Speed	L	I			
WRN-0313 WRNR ₂₋ -0313	к	0 ~ 800			1000 2000				
WRE-0313 WRE ₂₋ -0313	E	0 ~ 600	<30		4000 5000	50			
WRN-0913 WRN ₂₋ -0913	К	0 ~ 800	MPa	≤100m/s	6000 8000 10000	100 150			
WRE-0913 WRE ₂₋ -0913	E	0 ~ 600			12000 20000 25000				

Type & Specification									
Туре	Graduation	T. Range	трт	Measurement	Specification				
туре	Graduation	°C	INI	Туре	L	L,			
WRNK-191M WRNK ₂ -191M WRNT-11 WRNT ₂ -11	К	0 ~ 800			1000 10 2000 20 3000 30 4000 40	1000 2000 3000 4000			
WREK-191M WREK ₂ -191M WRET-11 WRET ₂ -11	E	0 ~ 600	≤2.5	Insulation Type	5000 6000 8000 10000 12000 20000 25000	5000 6000 8000 10000 12000 20000 25000			

FURNACE WALL THERMOCOUPLE

It is used to surface temperature measurement in furnace pipe wall, furnace wall and cylinder surfaces.



BEARING THERMOCOUPLE

It is applied to temperature meaurement in power plant with bearing equipment and other shock resistant occasions.



Type & Speci	fication				
Turna	Creation	T Denne %C	TDT	Specification	
Туре	Graduation	1. Range C	IRI	d	L
WRNT-31	К	0.000	100		100
WRNT-31	E	0~300	≤6S	6	200
WZP-31T	Pt100	0 ~ 100	≤6S		300

Tempe	rature Range	& Tolerance	of Thermocou	ıple				
			Tolerance Class					
Type	Graduation		1 / /		11			
		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range			
WEN		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333			
WRN	ĸ	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200			
WDE	/_/	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333			
WRE	-	±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900			
Measu	ring Range &	Tolerance of	Thermal Resi	stance				
Туре	Graduation	Measuring Range	Accurancy Class	Tole	erance			
	Detoo	000 . 450	Class A	±(0.15+0.002 t)				
WZP	FILOU	-200 ~ +450	-	±(0.30-	+0.005 t)			
wzc	Cu50 Cu100	-50 ~ +150	Class B	±(0.30-	+0.006 t)			

PETROLEUM & CHEMICAL INDUSTRY THERMOCOUPLE

Designed for petroleum chemical industry, it can measure the surface temperature of liquid, steam, and gas medium from 200° C to 1600° C.



HIGH TEMPERATURE & PRESSURE THERMOCOUPLE

It is used to temperature measurement and control during production process under high temperature and pressure. It is a temperature measuring device for refinery and HVPE production.

TRT

<180S

Thermowell

Material

GH2140

GH3030

1Cr18Ni9Ti

1Cr18Ni9Ti

GH2140

GH3030

1Cr18Ni9Ti

1Cr18Ni9Ti

Specification

L×I

450 × 300 500 × 350

550 × 400

 600×450

 650×500

750 × 600

950 × 750

1150 × 1000

T. Range

°C

0~1300

0 ~ 1000

0~800

0~600

0 ~ 1300

0 ~ 1000

0~800

0~600

Type & Specification

Graduation

S

Κ

Е

S

Κ

Е

Туре

QMWRR-430

QMWRR₂-430

OMWRN-430

QMWRN.-430

QMWRE-430

QMWRE₂-430

OMWRR-440

QMWRR_a-440

OMWRN-440

QMWRN_a-440

QMWRE-440

OMWRE -440

Type & Spec	Type & Specification								
Туре	Graduation	T. Range °C	TRT	Thermowell Material	Specification L × I				
WRNG-430 WRN ₂ G-430	К	0~800				380 × 150			
WREG-430 WRE ₂ G-430	E	0~600	.1000	10-101-07:	430 × 200 480 × 250				
WRNG-440 WRN ₂ G-440	К	0~800	<180S	ICLISINIALI	580 × 350 580 × 350 630 × 400				
WREG-440 WRE ₂ G-440	E	0~600			680 × 450				

WEAR-RESISTING THERMOCOUPLE

It is used for ball mill machine and coal mill machine in power plant or other environment with serious wear on thermowell. It is applied to the temperauture measurement for boiling-bed roaster coal incoming furnace.

It is used for production with high abrasive solid granule or fluid on spot, it is necessary temperature measuring devide for refineries.

WEAR-RESISTING & LEAKAGE-	
PROOF THERMOCOUPLE / THERMAL	
RESISTANCE	
	F

Type & Specification Range Thermowell Specification τ. Graduation TRT Туре °C Material L × I WRN-430M 0~800 Κ WRN_-430M 450 × 300 500 × 350 WRE-430M 550 × 400 Е 0~600 WRE₂-430M 600×450 1Cr18Ni9Ti <180S 650×500 WRN-440M Κ 0~800 750 × 600 WRN₂-440M 950 × 750 WRE-440M 1150 × 1000 Е 0 ~ 600 WRE -440M

Type & Specification									
T		T. Range	Thermowell	трт	Spe	cification			
туре	Graduation	°C	Material	INI	d	L×I			
WZPF-230 WZP ₂ F-230	Pt100	-200 ~ 250		<180S		300 × 150 350 × 200 400 × 250 450 × 300			
WZCF-230 WZC ₂ F-230	Cu50 Cu100	0 ~ 150			16				
WZPF-430 WZP ₂ F-430	Pt100	-200 ~ 250	1Cr18Ni9Ti			500 × 350 550 × 400 650 × 500			
WZCF-430 WZC ₂ F-430	Cu50 Cu100	0 ~ 150				750 × 600 1150 × 1000			

CORROSION-RESISTANT THERMAL RESISTANCE

It is used to measure temperature of various corrosive medium in petroleum & chemical industry. It is a special thermometer for soda chloride industry.

CORROSION-RESISTANT THERMOCOUPLE UNDER HIGH TEMPERATURE

It is widely used to measure temperature during various production processes with high temperature and corrosion in petrochemical, metallurgy, glass and ceramic industries.

Type & Specification								
Туре	Graduation	T. Range Thermowell TPT Spec		cification				
Type	Graduation	°C	Material	INI	d	L×I		
WRPF-330G WRP ₂ F-330G	S	0 ~ 1300	27050					
WRQF-330G WRQ ₂ F-330G	R	0 ~ 1300	MoSi ₂			$\begin{array}{c} 300 \times 150 \\ 350 \times 200 \\ 400 \times 250 \\ 450 \times 300 \\ 500 \times 350 \\ 550 \times 400 \\ 650 \times 500 \\ 750 \times 600 \\ 1000 \times 850 \end{array}$		
WRRF-330G WRR ₂ F-330G	В	0 ~ 1600		.1000	10			
WRPF-430G WRP ₂ F-430G	S	0 ~ 1300	0.4050	<1805	10			
WRQF-430G WRQ ₂ F-430G	R	0 ~ 1300	31032					
WRRF-430G WRR ₂ F-430G	В	0 ~ 1600	MoSi ₂					

Type & Specification								
Туре	Graduation	T. Range °C	Measurement Points	T h e r m o w e l l Material				
	K	0~1000		GH3030				
WRNK-230D	n	0~800		1Cr18Ni9Ti				
WREK-230D	E	0~600		1Cr18Ni9Ti				
	к	0~1000	2~14	GH3030				
WRNK-430D		0~800		1Cr18Ni9Ti				
WREK-430D	E	0~600		1Cr18Ni9Ti				
WZPK-430D	Pt100	-200~+450						

MULTI-POINT THERMOCOUPLE / THERMAL RESISTANCE

It is used for production locales which have no clear grads of temperature or temperature measurement of multi points. It is widely used in chemical fertilizer synthesizing tower and reserving tank devices.

MULTI-POINT EXPLOSION-SEPARATION THERMOCOUPLE / THERMAL RESISTANCE

It is used for production locales with flammable and explosive chemicals as well need multi points measurement.

Type & Specification							
Туре	Graduation	T. Range °C	Measurement Points				
	K	0 ~ 1000					
WRINK-240D	N	0 ~ 800					
WREK-240D	E	0 ~ 600					
	K	0 ~ 1000	2 ~ 14				
WHINK-440D	n	0~800					
WREK-440D	E	0 ~ 600					
WZPK-440D	Pt100	-200 ~ +450]				

SPECIAL THERMOCOUPLE

Special structure design for different occasions, can measure the surface temperature of liquid, steam and gas mediums ranging from 200°C to 1600°C directly.



Measuring Range & Tolerance of Thermocouple							
/		Tolerance Class					
Туре	Graduation	1		Ш			
\nearrow		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range		
WDN		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
WEIN	r.//	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200		
WIDE	-	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333		
WRE		±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900		
WDD	c	±1°C	0 ~ +1100	±1.5°C	0 ~ 600		
WINE	5	±(1+0.003(t-1100))	1100~ +1600	±0.0025 t	600 ~ 1600		
WRO	D	±1°C	0~+1100	±1.5°C	0 ~ +1100		
whQ	n	±(1+0.003(t-1100))	1100 ~+1600	±0.0025 t	1100 ~ +1600		
WDD	B	-	-	-	-		
חרויי		-	-	±0.0025 t	600 ~ 1700		
Meas	uring Range	& Tolerance of Th	ermal Resistance				
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance			
	D+100	200 500	Class A	±(0.15+0.002 t)			
VVZP	FLIUU	-200 ~ +300	Class B	±(0.30+0.005 t)			
WZC	Cu50 Cu100	-50 ~ +100	Class B	±(0.30+0.006 t)			

MINI-THERMOCOUPLE

It is used for temperature measurement & control in narrow place. It is necessary measuring device for textile and polyester fiber industries etc.



		ļ							
Type & Specification									
Туре	Graduation	T. Range °C	Thermowell Material	TRT	Specification				
WRNK-191S	К	0~600		-26	100 × 800 200 × 800				
WREK-191S	E	0 ~ 400	ICI IONIATI	<00	500 × 800 500 × 800 750 × 800				

Type & Specification								
Туре	Graduation	T. Range °C	Thermowell Material	TRT	Specification			
WRE-203S				<5S	500			
WRE-205S	E	-40 ~ 250		<8S	1000			
WRE-206S			10+19Ni0Ti	<10S	1500			
WZP-203S			10110101911	<5S	2000			
WZP-205S	Pt100	-200 ~ 250		<8S	2500			
WZP-206S				<10S	3000			

TINY SHEATHED THERMOCOUPLE

It is used for temperature measurement & control in narrow place and bending place. It is a measuring device for textile and polyester fiber industries etc.



SPRING FIXED THERMOCOUPLE

We adopt spring fixed device on thermocouple to make the measuring end closely contact on the surface on measured object. It is used to measure temperature in plastic, light textile and foodstuff industries etc.



Type & Specification								
_		T. Range	TOT	Specific	Specification			
туре	Graduation	°C IRI d		d	м]		
WZCM-201	Cu50 Cu100	-50 ~ 100	≤15S	6	M8 × 075			
WZPM-201	Pt100	-100 ~ 150	≤10S	6 M8 × 075		500		
WZPM-201B	Pt100	-100 ~ 150	≤10S	87	M10 × 1	1000 1500		
WZPM-201	Pt100	-100 ~ 150	≤10S	6 × 18 Resistance Tube		2000		
WZPM-201Y	Pt100	-100 ~ 150	≤10S	6 × 18 R Spring Slice 2-N	esistance Tube Compression //3 × 8	2500		

Туре T. Range °C WRET-01 0 ~ 400 1Cr18Ni9Ti E

Thermowell Material

Type & Specification

Graduation

SURFACE MEASURING THERMAL RESISTANCE

It is used to measure surface temperature for steam turbine, axis bush of motor in power plant or other machine body.

PT SURFACE MEASURING THERMAL **RESISTANCE FOR WATER SUPPLY PUMP**

It is used to measure the temperature of each kind of water supply pump.

Type & Specification									
Туре	Graduation	T. Range °C	TRT						
WZPMP-201	Pt100	-50 ~ 100	≤10S						
WZPM ₂ P-231	Pt100	-50 ~ 100	≤10S						
WZPM ₂ P-236S	Pt100	-100 ~ 300	≤15S						

THERMAL RESISTANCE WITH SOCKET-SHAPED

Easy for installation by using socket components. It is used to measure the surface temperature of liquid, gas and solid ranging from -200°C to 450°C.



Type & Spec	ification				
Туре	Graduation	T. Range °C	TRT	тмт	Specification
WZP-260	D+100	0 100	≤30S		100
WZP ₂ -260	FTIOO	0~+100	≤45S		200
WZP-267M	Pt100	-50 ~ +150	≤30S		250 300
WZP-269	D+100	000 .000	≤30S		75
WZP ₂ -269	PLIOU	-200 ~ +300	≤45S		150
WZC-269	Cu50	-50 ~ +100	≤120S		200 250
WZP-270	Pt100	-200 ~ +420	≤120S	ICT 10141911	50
WZC-270	Cu50	-50 ~ +150	<45S		100
WZP-280	Pt100	-50 ~ +150	<30S		150 200
WZP-26S	Pt100	-200 ~ +300	<5S		50 75 100 125 150

Type & Specification								
Туре	Graduation	T. Range °C	TRT	тмт	Specification			
WRN-530 WRN ₂ -530	К	0 ~ +100		300		300 × 150		
WRE-530 WRE ₂ -530	E	-50 ~ +150			400 × 250 450 × 300			
WRM-530 WRM ₂ -530	Ν	-200 ~ +300	≤90S	iCr18Ni9Ti	500 × 350 550 × 500			
WRC-530	Т	-50 ~ +100]		000 x 450			
WRJ-530		-200 ~ +420]		650 + 500			
WRJ ₂ -530	J	-50 ~ +150	1		050 × 500			

THERMAL RESISTANCE WITH RIGHT ANGLE ELBOW

It is used for production on locales where there is high temperature and harmful gas which has affection to connection box of thermocouple.

THERMOCOUPLE WITH PRECIOUS METAL FOR HIGH TEMPERATURE

It is used to measure temperature during various production processes with high temperature in glass, ceramic and industry salt-bashing furnace.

Type & Specification							
	Creduction	T Banga °C	TOT	Specification			
туре	Type Graduation 1. hange C TRT	d	L×I				
WRP-130 WRP ₂ 130	6	0 1200	<120S	16			
WRP-131 WRP ₂ -131	s	0~1300	<360S	25	300 × 150 350 × 200		
WRQ-130 WRQ ₂ -131		0, 1000	<120S	16	400 × 250 450 × 300		
WRQ-130 WRQ ₂ -131	ĸ	0~1300	<360S	25	550 × 350 550 × 400 650 × 500		
WRR-130 WRR ₂ 131		0. 1000	<120S	16	750 × 600 1000 × 850		
WRR-130 WRR ₂ 131	в	0~1600	<360S	25			

Type & Specification								
Tura		Thermowell	TPT	Specification				
туре	Graduation 1.	Material		IRI	D	L×I		
WRNK-	к	0 ~ 1100	GH3030 31 6SS	<10S	8	1000 1500		
231D		0~800	1Cr18Ni9Ti		27	2000 3000		

THERMOCOUPLE WITH EDGE ON FURNACE TUBE

It is suitable for the temperature measurement of industrial furnace tube, and surface temperature of tower wall in petroleum industries. It is a measuring devices for fractionating tower in refinery.

BLOWING THERMOCOUPLE

Forming certain blowing circuit between thermal element and thermowell and inject some inert gases to eliminate or reduce reversed gas penetrating into thermocouple under condition of high temperature and pressure.



Type & Specification								
Type	Oraduation	T. Range	Thermowell	Spec	Specification			
туре	Graduation	°C	Material	D	L×I			
WRPC-430 WRPC ₂ -430	S	800 ~ 1300			650 × 500			
WRRC-430 WRR ₂ C-430	В	800 ~ 1600	Corundum	20	850 × 700 900 × 750 1000 × 850 1150 × 1000			

Type & Specification							
Tuno	Graduation	T. Range	TMT	Spec	ification		
Type	Graduation	°C		D	L×I		
WRP-430 WRP ₂ -430	B + S + R	0 ~ +1600	SIC recrystallized	35	1400 × 1250 1750 × 1600		

THERMOCOUPLE FOR ARCH TOP OF FURNACE

Designed and manufactured to suit to measure the temperature of arch top of furnace. It made use of imported SIC re-crystallized materials to meet special demands of high furnace temperature measurement.

THERMOCOUPLE FOR ELECTRIC

This product is mainly used to measure the temperature of stator core, the advantages are resisting vibration and enduring pressure. The thermowell is made up of non-metallic isolated material.

Type & Specification						
Туре	Graduation	T. Range °C	TRT	L×I		
WZCT-201	Т	0 ~ 150	<30S	60 × 2500 294 × 4000 390 × 4500 570 × 4500 590 × 4800 797 × 12700		

Type & Specification					
Туре	Graduation	T. Range °C	TRT	L×I	
WRN-440J	K	0 1000	<1805	430 × 200	
WRN ₂ -440J	IX	0~1000	<1003	280 × 250	

SPECIAL THERMOCOUPLE FOR HEATING CRACKER

We adopt special structure for thermowell, make it access to inside of cracker tube closely and have effect brought by the flow of materials. It is suitable for temperature measuring and control in heating cracker during the ethylene production process.

SPECIAL THERMOCOUPLE FOR WRPG SERIES SALT BATH FURNACE

It is mainly used to continue measuring for salt bath furnace with high temperature in mechanical industry. This product is corrosion-resistant of high temperature melting salt, high reliability, long using expectancy.

Type & Specification					
Туре	Graduation	T. Range °C	TRT	L×I	
WRPG-1323				500 × 500	
WRPG-5323	S	0 ~ 1350	<90S	750 × 750 1000 × 1000	

Type & Specification					
Туре	Graduation	T. Range °C	Tolerance		
BXW-I			±0.4%t		
BXW-II	К	0 ~ 1000	or		
BXW-III			±0.75%t		

BXW SERIES PORTABLE IMMERGED TEMPERATURE MEASUREMENT METER

This is an all-in-one electromechanical product, combining thermocouple, display meter and measurement gun together; Display meter is 31/2 digit display with peak performance.

SPECIAL THERMOCOUPLE FOR VACUUM FURNACE

This series made used of high temperature resisting material for thermowell, so they can work stably and chronically from 1800 to 2000°C. We must hold the air into vacuum furnace to avoid the parts contact to air in the vacuum thermal process.



Type & Specification					
Туре	Graduation	T. Range °C	Tolerance	L×I	
WRRZ-235 -265 -295 -435 -465 -495	В	600 ~ 1800	±0.5t or ±0.25%t		
WRW3Z-235 -265 -295 -435 -465 -465 -495	WRe3- WRe25	200 2000	±0.5t	400 × 250 450 × 300 550 × 400 650 × 500 900 × 750 1150 × 1000 1650 × 1500	
WRW5Z-235 -265 -295 -435 -465 -465 -495	WRe5- WRe25	200 ~ 2000	±1.0%t		

THERMOCOUPLE WITH TEMPERATURE TRANSMITTER

It is usually used with display-meter, recording-meter and computer etc., outputting 4 to 20Ma, to directly measure temperature of liquid, vapor, gas medium and solid surface ranging from 0 to 1600°C during various production processes.



Measuring Range & Tolerance of Thermocouple						
		Tolerance Class				
Туре	Graduation	1		П	Ш	
		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range	
WOND	K	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WHIND	ĸ	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1300	
	N	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
	IN	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
WDED	E	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WNED	E	±0.004 t	375 ~ 800	±0.0075 t	333 ~ 900	
WDER	J	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
Whild		±0.004 t	375 ~ 750	±0.0075 t	333 ~ 750	
WRCR	т	±1.5°C	-40 ~ +125	±2.5°C	-40 ~ +133	
WNCB		±0.004 t	125 ~ 350	±0.0075 t	133 ~ 350	
Measurin	g Range & Toler	ance of Ther	mal Resista	nce		
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance		
W/700	Detoo	000 1450	Class A	±(0.15+0.00	2 t)	
WZFB	FUIDO	-200 ~ +450	Class B	±(0.30+0.005 t)		
WZCB	Cu50 Cu100	-50 ~ +150		±(0.30+0.00	±(0.30+0.006 t)	

Measurin	g Range & Tole	rance of The	rmocouple			
/		Tolerance Class				
Type	Graduation	1	//	1	//	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Tolerance Value	Measuring Range	Tolerance Value	Measuring Range	
		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRIND	n	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1300	
WEND	N	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRIVIB	WRMB N	±0.004 t	375 ~ 1000	±0.0075 t	333 ~ 1200	
WDED		±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WREB	F	±0.004 t	375 ~ 800	±0.0075[t]	375 ~ 900	
MDED	/./	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +333	
WRFB	J	±0.004 t	375 ~ 750	±0.0075 t	333 ~ 750	
WDCD	-	±1.5°C	-40 ~ +375	±2.5°C	-40 ~ +133	
WRCB		±0.004 t	125 ~ 350	±0.0075 t	133 ~ 1000	
Measurin	g Range & Tole	rance of The	rmal Resista	ince		
Туре	Graduation	Measuring Range	Accurancy Class	Tolerance		
WIZEE	PHIOD	000 . 450	Class A	±(0.15+0.002	2 t)	
WZPB	PLIOD	-200 ~ +450	Class B	±(0.30+0.005	ō t)	
WZCB	Cu50 Cu100	-50 ~ +150	-	±(0.30+0.006	±(0.30+0.006 t)	

EXPLOSION-PROOF THERMOCOUPLE WITH TEMPERATURE TRANSMITTER DISPLAY TUBE

It is usually used with display-meter, recording-meter and computer etc., outputting 4~20Ma, to directly measure temperature of liquid, vapor, gas medium and solid surface ranging from -200 to 1300°C during various production processes with output of 4 to 20Ma.



TEMPERATURE TRANSMITTER

It features as novelty structure, safety reliable, convenient for users and observing the temperature change on spot. It is widely used in petroleum, natural gas, chemical industry, metallurgy, hydroelectric, cement, glass industries etc. It is connected with various electronic meter, intelligent digital-display meter and computer control system etc.

Type & Specification					
Once Measuring El	ement	Graduation	Measuring Range		
	NiCr-CuNi	E	0 ~ 800°C		
	NiCr-CuSi	К	0 ~ 1100°C		
Thermosouple	PtRh ₁₀ -Pt	S	0 ~ 1300°C		
Thermocoupie	PtRh ₃₀ -PtRh ₆	В	0 ~ 1600°C		
	Cu-CuNi	Т	0 ~ 400°C		
	Fe-CuNi	J	0 ~ 750°C		
	Cu Thermal Resistance	Cu50	-50 ~ 150°C		
Thermal Resistance	Cu Thermal Resistance	Cu100	-50 ~ 150°C		
	Pt Thermal Resistance	Pt100	-200 ~ 500°C		

Macouring Dongo	Application Range		
Measuring hange	Industry / Commercial	Small Lab	
-80 ~ +40	E	0 ~ 800°C	
-40 ~ +80	К	0 ~ 1100°C	
0 ~ 50	S	0 ~ 1300°C	
0 ~ 100	В	0 ~ 1600°C	
0 ~ 150	Т	0 ~ 400°C	
0 ~ 200	J	0 ~ 750°C	
0 ~ 300	Cu50	-50 ~ 150°C	
0 ~ 400	Cu100	-50 ~ 150°C	
0 ~ 500	Pt100	-200 ~ 500°C	

BIMETALLI THERMOMETER

It is a kind of testing meter used to measure middle & low temperature on spot. It directly to measure temperature of liquid, vapor and gas medium ranging -80°C to +600°C during various production processes.

ELECTRIC JUNCTION BIMETALLIC THERMOMETER

It is used on production spot with demand of automatic control and alarming on temperature to directly measure temperature of liquid, vapor and gas medium ranging from -80°C to 500°C during various production processes.

	Electric Parameters				
	Rated Power	Max Working Voltage	Max Allowed Current		
	10	220 A.C 24 D.C	0.7A		

Insulation Resistance

Rated Power	Testing Voltage D.C	Insulation Resistance
24 D.C	100	7
220 A.C	500	20

Type & Specification					
Туре	Measuring Range °C	РТМ	L		
WSSX-410B					
WSSX-480B					
WSSX-411B					
WSSX-481B					
WSSX-412B	~80 ~ +40		75		
WSSX-482B	-40 ~ +80 0 ~ +50	iCr18Ni9Ti	100 150		
WSSX-413B	0~+100	304	200		
WSSX-483B	0 ~ +150 0 ~ +200	316L	400		
WSSX-414B	0 ~ +300 0 ~ +400	C-276	500 750		
WSSX-484B	0 ~ +500		1000		
WSSX-415B					
WSSX-485B					
WSSX-416B					
WSSX-486B					

EXPLOSION-SEPARATION BIMETALLIC THERMOMETER

It is used to directly measure temperature of liquid, vapor and solid surface ranging from -80°C to +350°C during production on spot with explosives such as hydrocarbon.



BIMETALLIC THERMOMETER WITH THERMOWELL

It is used to directly measure temperature of liquid, vapor, gas medium and solid surface ranging from -80°C to +350°C during various production processes.



Type & Specification						
Туре	T. Range °C	РТМ	L	NP		
WSS-403S						
WSS-503S						
WSS-513S						
WSS-483S	-80 ~ +40		75	≤30		
WSS-583S			100	MPa		
WSSX-403S	-40 ~ +80		150			
WSSX-413S	0 ~ +50	iCr18Ni9Ti	150			
WSSX-480S	0 ~ +100	304	200			
WSS-403L	0 ~ +150	316	300			
WSS-503L	0 ~ +200	316L	400			
WSS-413L	0 ~ +300	C-276	500			
WSS-513L	0~+400		750			
WSS-483L	0 1500		1000	≤1.5-40 MPa		
WSS-583L	0~+500					
WSSX-403S						
WSSX-413L						
WSSX-483L						

Type & Specification							
Туре	Graduation	T. Range °C	РТМ	L			
WSSE-401							
WSSE-501							
WSSE-411	-						
WSSE-511	E						
WSSE-481		-80 ~ +40					
WSSE-581		-40 ~ +80		150			
WSSP-401		0 ~ +50	iCr18Ni9Ti	200			
WSSP-501		0 ~ +100	304	300			
WSSP-411	D+100	0 150	216	400			
WSSP-511	PIIOU	0~+150	310	500			
WSSP-481		0 ~ +200	316L	750			
WSSP-581		0~+300	C-276	130			
WSSXE-401	E	0 ~ +400		1000			
WSSXP-401	Pt100	0 ~ +500					
WSSXE-411	E						
WSSXP-411	Pt100						
WSSXE-481	E						
WSSXP-481	Pt100						

BIMETALLIC THERMOMETER WITH THERMOCOUPLE

It is used to measure temperature of liquid, vapor, gas medium and solid surface ranging from -80°C to +5000°C during various production processes.

THERMOWELL

It is matched with thermocouple and bimetallic thermometer to ensure their normal operation. It can be also used for environment under high pressure and with high flow speed.



THROTTLING ELEMENTS

HollySys produced various kinds of throttling elements such as orifice plates, ISA 1932 Nozzle, Long Radius Nozzle, Classic Venturi Tubes and Venturi Nozzle etc. with Angular Contact, flange, and D-D/2 taps pressure taking mode. We also supplies special throttling elements such as airfoil type volume measuring elements, 1/4 circle orifice plate (nozzle), excenric orifice plate, segmental orifice plate and over 30 kinds and more 1000 specifications of products may be offered for pipe size from DN6 to 5000mm (max), pressure PN42.0MPa (2500 Class) and temperature from -196°C to 1200°C.





1. BASIC PRINCIPLE

When the fluid is flowing through the throttling element within the pipeline, the flux will be narrowed partially in throttling throat to increase the flow rate and reduce the static pressure. Therefore, the deviation of static pressure between the front part and the rear part of the throttling element shall be formed.





ISA1932 Nozzle with Downward Welding Flange Component



High Pressure Orifice Plate with Lens Washer



Long Radius Nozzle



Welding Type 8 Slots Orifice Plate or Nozzle



Tightening Type 8 Slots

Orifice Plate or Nozzle

Inner Small Orifice Plate



Classic Venturi Tube



Venturi Nozzle



1/4 Circle Orifice Plate (Nozzle)



Airfoil Type Volume Measuring Device

3.1 THROTTLING DEVICE LIST FOR SELECTION

Name	Model	Tappings	d	Pressure	d Ratio	Reynolds	Description	Standards
ate	LGBH	Ring Chamber Tappings	50 ~ 400	≤32		≥5000(0.2≤B≤0.45)	5000(0.2≤B≤0.45) for power plant, textile, metallurgy, light	
ffice Pla	LGBZ	Single Drill Tappings	400 ~ 3000	≤6.4	0.0.0.75	210000(b20.45)	industry etc. Use mainly 8 solt orifice plate under high temperature and pressure.	ISO5167-1 GB/T2624-2006
ard Ori	LGBF	Flange Tappings	50 ~ 3000	≤42	0.2 ~ 0.75	≥1260ß2D	For all kinds of fluids, main suitable for petrochemical.	GD87-1101 HG/T21581-95
Stand	LGBJ	D-D/2 Tappings	50 ~ 3000	≤25		≥1260ß2D	For all kinds of fluids, main suitable for metallurgy.	



Flow Rate And Pressure Distribution

Name	Model	Tappings	d	Pressure	d Ratio	Reynolds	Description	Standards
Long Radius Nozzle	LGCJ	D-D/2 Tappings	50 ~ 630	≤42	0.2 ~ 0.8	10 ⁴ ~ 10 ⁷	Low pressure loss, long life, mainly used for main feed water & main steam.	ISO5167-1
932 zle	LGPH	Ring Chamber Tappings	50 500	<10	0.0.0.0	0103 107	Low pressure loss, long life, use mainly 8	GB/T2624-2006 GD87-1101
ISA1 Nozz	LGPZ	Single Drill Tappings	50~500	≤42	0.2 ~ 0.8	2 × 10 ³ ~ 10 ⁷	pressure.	
Rough Molten Venturi Tube	LGXT	Special Tappings	100 ~ 800	≤2.5	0.3 ~ 0.75	2 × 10 ⁵ ~ 2 × 10 ⁶	Lower pressure loss, mainly used for larger pipe and larger flow.	
Mechanical Processed Venturi Tube	LGTT	Special Tappings	50 ~ 250	≤42.0	0.4 ~ 0.75	2 × 10 ⁵ ~ 2 × 10 ⁶	Lower pressure loss, suitable for high temperature and pressure.	
Rough Welding Iron Plate Venturi Tub	LGWT	Special Tappings	200 ~ 3000	≤6.4	0.4 ~ 0.7	2 × 10 ⁵ ~ 2 × 10 ⁶	Lower pressure loss, mainly used for larger pipe and larger flow.	ISO5167-1 GB/T2624-2006 HG/T21581-95
Venturi Nozzle	LGLT	Special Tappings	65 ~ 500	≤6.4	0.316 ~ 0.775	$1.5 \times 10^5 \sim 2 \times 10^6$	Lower pressure loss, mainly used for larger pipe, larger flow.	110/121001-00
High Pressure Orifice Plate With Lens Washer	LGGZ	Single Drill Tappings	15 ~ 200	20 ~ 32	0.2 ~ 0.75	≥5000(0.2≤β≤0.45) ≥10000(β≥0.45)	High pressure, mainly suitable for petrochemical, refinery.	
Wide Edge Orifice Plate	LGKZ	Single Drill Tappings	50 ~ 400	≤25			For all kinds of fluids, mainly suitable for petrochemical.	
e	LGQZ	Single Drill Tappings					For dirty fluid such as coal gas, the fluid	
nental ce Pla	LGQJ	D-D/2 Tappings	50 ~ 2000	≤25	0.1 ~ 0.8	10 ⁴ ~ 10 ⁶	shall pass easily through orifice, not form accumulation in front of the orifice	BS1042 ISO/TR15377
Segn	LGQF	Flange Tappings					and affect measurment. Not suitable for vertical pipe.	HGJ516-87
Excenric Orifice Plate	LGOZ	Single Drill Tappings	100 ~ 1000	≤25	0.46 ~ 0.84	2.5 × 10⁵β²~ 10⁵β (d≥50)	For dirty fluid such as coal gas, the fluid contained of sediment and suspension shall pass easily through orifice, not form accumulation in front of the orifice and affect measurment. Not suitable for vertical pipe.	BS1042 ISO/TR15377 HG/T21581-95
0	LGOZ	Single Drill Tappings					For dirty fluid such as coal gas, the fluid	
e Plat		D-D/2 Tappings	100 ~	≤25	0.46 ~	2.5 × 10⁵β² ~ 10⁶β (d≥50)	shall pass easily through orifice, not	BS1042 ISO/TR15377
Drifice	LGOF	Flange Tappings	1000		0.07		and affect measurment. Not suitable for vertical pipe.	HG/T21581-95
Nozzle) im Or ream	LGDH	Ring Chamber Tappings	50 ~ 400	-6.1	0.2 - 0.75	>5.5 × 10 ³	Suitable for ping inlet or outlet	ISO/TR15377
Orifice (Without Upstrea Downst Pipe	LGDZ	Single Drill Tappings	400 ~ 3000	10.14	0.2 0.10		Contractor for pipe inner Grounder.	HG/T21581-95
e (LGEH	Ring Chamber Tappings	50 ~ 500		0.045			B\$1042
4 Circ rifice ate ozzle	LGEZ	Single Drill Tappings	25 ~ 500	≤25	0.245 ~ 0.6	≤10⁵ß (d≥15)	fluid, suitable for fuel oil in plant.	ISO/TR15377 HG/T21581-95
≥o≣Z	LGEF	Flange Tappings	40 ~ 500					
giate ce	LGRH	Ring Chamber Tappings	50 ~ 500	<25	0.1 ~ 0.316	80 ~ 2 × 10⁵B	For lower Reynolds number, suitable for	BS1042
Fasti Entry Orific Plate	LGRZ	Single Drill Tappings	25 ~ 500			(d > 6)	fuel oil in plant.	ISO/TR15377
	LGYH	Ring Chamber Tappings	50 ~ 400					
Doub Tier Orific Plate	LGYZ	Single Drill Tappings	25 ~ 400	≤25	0.2 ~ 0.75	$3 \times 10^{3} \sim 3 \times 10^{5}$	For lower Reynolds number	HG/T21581-95
	LGMH	Ring Chamber Tappings		//				
ifice	LGMZ	Single Drill Tappings	15~50	≤42.0	0.2 ~ 0.75	≥1000	For small pipe	GB2624-81 ISO/TR15377
S Ori	LGMF	Flange Tappings						
Inner Small Orifice Plate	LGNF	Flange Tappings	10~50	≤42.0	0.1 ~ 0.75	≥1000	For small pipe. main suitable for petrochemical.	
Double- Tier Venturi Tube	LGST	Special Tappings	360~3000	≤6.4		10 ⁴ ~ 10 ⁷	Lower pressure loss, mainly used for larger pipe, short straight pipe requirement.	
Airfoil Type Volume Measuring Device	LGJT	Special Tappings	≥300	≤6.4	0.3 ~ 0.65	2.5 × 10 ⁵ ~ 10 ⁷	Mainly used for wind rate measurement, short straight pipe requirement.	-
Restriction Orifice	LGA	No Tappings	∞	≤42.0			Not for flow measurement, to restrict the fluid pressure.	-
ASME Throat Pressure Long Radius Nozzle	LGCT	Throat Tappings	50~630	≤42.0	0.2 ~ 0.8	10 ⁴ ~ 10 ⁷	Good repeatability and long term stability. Long life, High precision. For power plant condenser water measurement and other important occasions and high precision measurement.	-

4. ACCESSORIES

In the process of field use, we provides supporting accessories for throttling elements in order to measure up to various requirement.

- Condenser
- Balancer
- Isolator
- Sediment & Gas Chamber

AFM2000 METAL TUBE FLOWMETER

Metal tube flowmeter is suitable for measuring gases, vapours and liquids. Meter can be used to measure the continuous cleaning of gases and liquids, especially for flow measurement and control of low flow, low flow rate, harsh media conditions and process control. The devices are particularly suitable for the measurement of water, hydrocarbons, corrosion protection agents, lubricants, chemicals, additives, solvents, superheated steam, air and industrial gases etc.



Key Features

- Simple, practical and low-cost installation
- Explosion-proof and intrinsically safe isolation integration
- All-metal structure, small, modular design, easy maintenance
- Flow: horizontal, down-up, up-down, side-side, bottom-side
- All-metal structure, seismic, pressure, temperature, corrosion resistance

Model No / Tech Parameters	HT50	HT51, HT52, HT53	HT54	HT55	HT56				
Meter Diameter	DN15 ~ DN150		DN15 ~ DN100	DN15 ~ DN100	DN15 ~ DN50	DN80 ~ DN150			
Measuring Range	Water (20°C) 16 ~ 150000 Air (20°C) 0.1013MPa 0.5	L/h ~ 5000m3/h	Water (20°C) 16 ~ 100000L/h Air (20°C) 0.1013MPa 0.5 ~ 3000m3/h	Water (20°C) 16 ~ 100000L/h Air (20°C) 0.1013MPa 0.5 ~ 3000m3/h	Water (20°C) 16 ~ 25000L/h Air (20°C) 0.1013MPa 0.5 ~ 1000m3/h	Water (20°C) 16 ~ 150000L/h Air (20°C) 0.1013MPa 1 ~ 4000m3/h			
Range Ratio	Standard: 10:1; Particular								
Accuracy	1.0; 1.5								
Mounting Height	250mm				$\left \right\rangle $	250mm / 350 ~ 400mm			
Wetted Materials	R0 (316); R1 (304); RL (316L); RP (PTFE Lining); RC (Hastelloy C); RT (Titanium Liner)	(304); hing); y C); Liner)							
Pressure Level	Standard: DN15~DN50, 4.0MPa; DN80~DN200, 1.6MPa; Particular: DN15~DN50, 5~42MPa; DN80~DN150, 2.5~16MPa Jacketed Pressure Rating: 1.6MPa	Standard: DN15~DN50, 4.0MPa; DN80~DN200, 1.6MPa; Particular: DN15~DN50, 5~42MPa; DN80~DN100, 2.5~25MPa DN150, 2.5~16MPa	Standard: DN15~DN50, 4.0MPa;	Standard: DN15~DN100, 1.6MPa;	Standard: DN15~DN50, 4.0MPa; Particular: DN15~DN50, 6.3MPa	Standard: DN80~DN150, 1.6MPa; Particular: DN80~DN50, 6,3MPa			
Connection	Standard Flanges: HG/T2	0592-2009	Pipe Thread; Threaded SMS	Jacket	Standard Flanges: HG/T2	20592-2009			
Ambient Temperature	-40°C ~ 120°C, Flameproo	of: -20°C ~ +40°C, Intrinsic	ally Safe: -20°C ~ +40°C						
Medium Temperature	Standard -40°C ~ +120°C Particular -80°C ~ +350°C PTFE Lining ≤80°C	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Standard -40°C ~ +120°C	; Particular -80°C ~ +350°	C;				
Signal Output	Two-wire4~20mA output;	Hart Communication; Two	-wire Sensor Threshold Sw	itch, 8VDC Power Supply;					
Power Supply	Standard: 24VDC (10.8VD Battery Type: 3.6V - 9Ah L	C ~ 28VDC) AC type: 220V/ .ithium Battery	AC (85 ~ 265VAC)						
Explosion Levels	Intrinsically Safe: Exia II C	T6 Ga; Flameproof: Exd II (CT6 Gb						
Protection Class	IP65			/					
Medium Viscosity	DN15: <5mpa.s (H15.1 ~ 15.3); <30mpa.s (H15.4 ~ 15.9) DN25: <250mpa.s DN50 ~ DN150: <300mpa.s								
Display Method	Scene Pointer Display; LC	D							
Electrical Connections	1/2"NPT; M20 × 1.5								

AF2000 SERIES ELECTROMAGNETIC FLOWMETER

Electromagnetic flowmeter (EMF) is the ideal flowmeters for metering the flow of all liquids, slurries and sludges that have a specific minimum electrical conductivity. It measures accurately, create no additional pressure drop, contain no moving or protruding parts, are wear free and corrosion resistant. Installations are possible in any existing piping system.



It can be applied in the chemical, pharmaceutical and cosmetic industries, municipal water and waste water treatment facilities and in the food and paper industries.

Performance	
Nominal Diameter	DN10 ~ DN1000 (special customization to consult technical staff)
Accuracy Class	Up to 0.5 level
Structure Type	One type, split type
Pressure Level	(1.0 ~ 4.0) MPa, up to 25MPa
Lining Material	Rubber, PTFE, PFA, F46, fluorine-containing silicone and other electrode materials
Electrode Material	Stainless steel, HCB2 / B4, platinum - iridium, tantalum, titanium
Shell Material	Cast aluminum (DN10 ~ DN300), carbon steel (DN350 ~ DN1000) connection
Form	Flanged, clamped
External control zero \ external accumulator back	to zero, positive \ reverse flow self-test, on-site instructions \ cumulative function
Operation Method	Panel button electricity
Gas Interface	M20 × 1.5
Explosion-Proof Grade	Ex embibIICT3~T6







AF1000 SERIES ELECTROMAGNETIC FLOWMETER

Performance	
Nominal Diameter	DN10 ~ DN1000 (special customization to consult technical staff)
Accuracy Class	Up to 0.5 level
Structure Type	One type, split type
Pressure Level	(1.0 ~ 4.0) MPa
Lining Material	Rubber, PTFE, PFA, F46 etc.
Electrode Material	Stainless steel, HCB2 / B4, platinum - iridium, tantalum, titanium
Shell Material	Cast aluminum (DN10 ~ DN100), carbon steel (DN125 ~ DN1000) connection
Form	Flanged, clamped
External control zero \ external accumulator back	to zero, positive \ reverse flow self-test, on-site instructions \ cumulative function
Operation Method	Infrared remote control
Electrical Interface	Aviation Plug

AL2000 SERIES MAGNETIC LIQUID LEVEL

The product coupled with the level control, alarm switch, enabling liquid level control, alarm and chain, coupled with built-in integrated level transmitter. The liquid level (interface) signal can be converted into a 2-wire 4 ~ 20mADC standard signal to achieve long-range liquid level detection and control.

Performance	
Range	0~15000mm
Accuracy	±10mm
Structure Type	Basic type, medium temperature type, high temperature and pressure type, hygienic type, low density type, corrosion-resistant, heating jacket type, with heat-type, vacuum jacket type, balance transmission type, low temperature anti- frost type, magnetic type (LED double color light beam)

Stainless steel panel and scale, measuring tube diameter of 63mm, beautiful appearance, timber solid Indicator (flap chamber) for the sealing structure (vacuum can be required) B200 series can be equipped with remote transmitter level, dry reed pipe using the United States Hamlin (HAMLIN) brand.



Structure Principle

When liquid level in measured vessal changes, the float in guide tube moves correspondingly. The permanent magnet in float act the reversing cloumn. While liquid level increases. Column reverses from white to red, while level decreases, column reverses from red to white. The red/white interface of indicator is level of liquid in vessel.





Technical Indicators

Install Type	Model Structure	Characteristic	Contacting	Measuring Range	Design Temp	Design Pressure
	AL2001	Basic Type	304, 316L	0-300~15000mm	0~150 °C	-0.1~2.5 MPa
	AL2002	Middle Temperature & Middle Pressure Type	304, 316L	0-300~6000mm	0~200 °C	2.5~4.0 MPa
	AL2003	High Temperature & High Pressure Type	304, 316L	0-300~6000mm	0~420 °C	4.0~16.0 MPa
	AL2004	Sanitary Type	316L	0-300~6000mm	0~150 °C	-0.1~2.5 MPa
	AL2005	Low Density Type	304, 316L	0-300~6000mm	-15~100 °C	-0.1~6.3 MPa
	AL2006	PP Corrosion-Proof	PP	0-300~6000mm	0~80 °C	0~0.6 MPa
Side-	AL2007A	DTEE Correction Dract	DTEE	0.500.0000	0.150.90	0~2.5 MPa
Туре	AL2007B	PTPE Corrosion-Proof	PIFE	0-500~60000000	0~150 °C	-0.1~0 MPa, 0~10 Mpa
	AL2008A	Jacket-Heating Type	304, 316L	0-300~6000mm	0~200 °C	-0.1~4.0 MPa
	AL2008B	With Electric Heat	304, 316L	0-300~6000mm	0~100 °C	-0.1~4.0 MPa
	AL2009	Vacumm Jacket Type	304, 316L	0-300~6000mm	-15~200 °C	-0.1~6.3 MPa
	AL2010	Balance-move Type	304, 316L	0–300~15000mm	0~200 °C	0 MPa
	AL2011	РР Туре	PP	0–300~3000mm	0~80 °C	0~0.6 MPa
	AL2012	Low Temperature Frost-Proof Type	304, 316L	0–300~6000mm	-60~0 °C	-0.1~6.3 MPa
	AL2020	Normal Top-install Type	304, 316L	0–500~4000mm	-15~420 °C	-0.1~2.5 MPa
	AL2021	Top-Install Type Without Protect Tube	304, 316L	0-800~4000mm	-15~420 °C	-0.1~4.0 MPa
Top-Mounted	AL2022	Top-Install type With PP Corrosion-Proof	PP	0-800~4000mm	0~80 °C	0~0.6 MPa
	AL2023A		PTFE	0-800~3500mm		0~1.6 MPa
	AL2023B	Iop-Install Type With PTFE Corrosion-Proof			0~150 °C	-0.1~0 MPa, 0~1.6 Mpa
Side- Mounted Type	AL2500	Sensitive Type	304, 316L	0–300~10000mm	0~200 °C	-0.1~16.0 Mpa

AL2300 SERIES MAGNETIC FLOAT LEVEL GAUGE

Performance		
Range	0~000mm	/
Accuracy	±10mm	
Output Signal	Two-wire system 4 ~ 20mA	
Electrical Interface	M20×1.5	
Operating Temperature	-15 °C~120 °C	
Working Pressure	-0.1MPa~4.0MPa	
Power Supply	24VDC	
Wetted Material	304,316 L, PP, PTFE etc	

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