ELASTYCHEM

INDUSTRIAL MEASUREMENT & CONTROL SOLUTIONS

In Partnership with SUSTONIX

MEASUREMENT
Accurate & Reliable

CONTROL
Process Instrumentation

SIGNAL
Isolation & Conditioning

DATA
Acquisition & Recording

PRODUCT PORTFOLIO

- Level transmitters
- Temperature products
- Safety barriers
- Pressure transmitters
- Current transmitters
- Protectors
- Flow meter transmitters
- Voltage transmitters
- Signal acquisition
- Signal isolators
- Electric transmitters
- Recorders

ELASTYCHEM | SUSTONIX PARTNERSHIP

Industrial instrumentation, measurement and control solutions

ABOUT THE PARTNERSHIP

Elastychem, in partnership with SUSTONIX, provides a portfolio of industrial measurement and control solutions designed to support reliable, accurate and efficient process operations.

The partnership combines Elastychem’s customer-focused approach and local market support with SUSTONIX’s OEM manufacturing and instrumentation capabilities.

The catalogue includes solutions for level, pressure, flow, temperature, current, voltage and electrical measurement, together with signal isolation, safety barriers, protection, signal acquisition and recording.

Our objective is to provide dependable instrumentation, practical technical support and fit-for-purpose solutions for industrial applications.

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Level transmitters

Focusing on automation and intelligent solutions

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performance parameter				
Name	Input type liquid level transmitter	Split level transmitter	High temperature liquid level transmitter	Direct insertion transmitter
Measuring range	Any range within 0-5000 meters	Any range within 0-5000 meters	Any range within 0-20 meters	Any range within 0-20 meters
Output signal	4-20mA，1-5V 0-10V，RS485 etc.	4-20mA，1-5V 0-10V，RS485 etc.	4-20mA，1-5V 0-10V，RS485 etc.	4-20mA，1-5V 0-10V，RS485 etc.
Power supply	12-28VDC	12-28VDC	12-28VDC	12-28VDC
Shell protection	IP68	IP68	IP68	IP68
Accuracy level	0.1 level, 0.2 level	0.1 level, 0.2 level	0.1 level, 0.2 level	0.1 level, 0.2 level
Linearity	0.03%	0.03%	0.03%	0.03%
Overload pressure	300%F.S	300%F.S	300%F.S	300%F.S
Long term stability	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y
Full-load Consumption	2W	2W	2W	2W
Load Capacity	≤500Ω	≤500Ω	≤500Ω	≤500Ω
response time	≤50MS	≤50MS	≤50MS	≤50MS
working temperature	−40°C～100°C	−40°C～100°C	0°C～+300°C	0°C～+300°C
Measurement medium	Non corrosive liquid	Non corrosive liquid	High temperature liquid	Non corrosive liquid
texture of material	Core 316 membrane Shell 304, rubber wire	Core 316 membrane Shell 304, rubber wire	Core 316 membrane Shell 304, wire 304	Core 316 membrane Shell 304, pipe diameter 304
Measurement method	The probe sinks to the bottom of the liquid	The probe sinks to the bottom of the liquid	The probe sinks to the bottom of the liquid	Insert into the bottom of the liquid

performance parameter				
Name	Single/double flange level gauge	Magnetic flap level gauge	Ultrasonic level gauge	Radar level gauge
Measuring range	Any range within 1-50 meters	Any range within 0-15 meters	Any range within 0-60 meters	Any range within 0-120 meters
Output signal	4-20mA，1-5V 0-10V, RS485, etc	4-20mA remote transmissionUpper and lower limit relay alarm	4-20mA，RS485 Communication, relay alarm	4-20mA，RS485 Communication, relay alarm
Power supply	12-28VDC	24VDC	24VDC，220VAC	24VDC，220VAC
Shell protection	IP68	IP65	IP68	IP68
Accuracy level	0.1 level, 0.2 level	0.2 level, 0.5 level	0.2 level, 0.5 level	±1mm
Linearity	0.03%	0.03%	0.03%	0.01%
Overload pressure	300%F.S	200%F.S	200%F.S	200%F.S
Long term stability	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y
Full-load Consumption	2W	2W	2W	2W
Load Capacity	≤500Ω	≤500Ω	≤500Ω	≤500Ω
response time	≤50MS	≤50MS	≤50MS	≤50MS
working temperature	−200°C～+600°C	−200°C～+600°C	−200°C～+600°C	−200°C～+600°C
Measurement medium	Non corrosive liquid	Non corrosive liquid	Liquid level, material level, material level	Liquid level, material level, material level
texture of material	316, Tantalum, Ha C, Gold plating	304、316、PP、PVC	Engineering plastics, cast aluminum	Cast aluminum
Installation method	Flange installation	Flange installation, threaded installation	Flange installation, threaded installation	Flange installation, threaded installation

that the measured liquid level static pressure is proportional to the height of the liquid. It uses the diffusion silicon piezoresistive effect to convert the pressure into an electrical signal. After temperature compensation and linear calibration, it is converted into standard current, voltage, RS485 and other signal outputs. It can be directly connected to PLC/DSC, display instruments, computers and other devices for long-distance signal transmission. Widely used for liquid level measurement in various media such as petrochemicals, water supply and drainage, and environmentally friendly electricity.



Introduction

Magnetic flap level gauge can achieve high sealing, leak prevention, and safe and reliable measurement of liquid level under high temperature, high pressure, high viscosity, and strong corrosive conditions. The entire measurement process has no blind spots, eye-catching display, intuitive reading, and a large measurement range. Equipped with liquid level alarm and control switch, it can realize upper and lower limit alarm and control of liquid level or boundary. Equipped with liquid level transmitter, it can achieve remote detection, indication, recording, and control.

Input type liquid level transmitter



Features

- Easy and convenient installation, strong interchangeability
- Strong overload resistance, impact resistance, and anti-interference ability
- High stability and long lifespan
- Anti blocking design enables measurement of paste like media
- The tested medium is wide and not affected by foaming or sedimentation of the medium

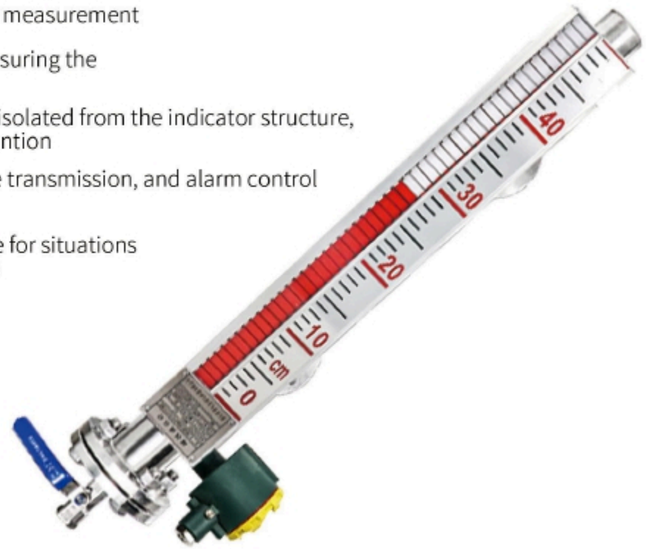
parameters

Working power supply	12V DC～28V DC	Comprehensive accuracy	0.1%、0.2%
measuring range	Any range within 1-500 meters	Shell material	304 stainless steel probe, rubber wire
output signal	4-20mA, 1-5V, 0-10V, RS485, etc	Compensation temperature	0°C～+50°C
Medium temperature	-20°C～+60°C	Overload pressure	300%F.S
Measurement medium	Non corrosive liquid	Shell protection	IP68

Magnetic flap level gauge

Features

- High precision and high sensitivity measurement
- Widely applicable, capable of measuring the liquid level of any medium
- The tested medium is completely isolated from the indicator structure, with high reliability and leak prevention
- Integrating on-site display, remote transmission, and alarm control Adjustable and fully functional
- Good vibration resistance, suitable for situations with large liquid level fluctuations



parameters

Working power supply	12V DC～36V DC	Comprehensive accuracy	0.1%、0.2%
measuring range	Any range within 0-15 meters	Installation location	Towers, tanks, tanks, containers, boilers, etc
output signal	4-20mA, relay alarm	Compensation temperature	-10°C～+80°C
Medium temperature	0°C～+80°C	Overload pressure	300%F.S
Installation method	Side mounted, top mounted, DN20 flange installation	Shell protection	IP65

Pressure transmitters

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Pressure series performance parameters

performance parameter				
Name	Compact pressure transmitter	Digital pressure transmitter	High temperature pressure transmitter	Sanitary pressure transmitter
Measuring range	-0.1~100MPa Within any range	-0.1~100MPa Within any range	-0.1~100MPa Within any range	-0.1~100MPa Within any range
Output signal	4-20mA，1-5V 0-10V, RS485, etc	4-20mA, RS485, etc	4-20mA，1-5V 0-10V, RS485, etc	4-20mA，1-5V 0-10V, RS485, etc
Power supply	12-36VDC	12-36VDC	12-36VDC	12-36VDC
Shell protection	IP65	IP65	IP65	IP65
Accuracy level	0.1%，0.25%	0.1%，0.25%	0.1%，0.25%	0.1%，0.25%
Linearity	0.03%	0.03%	0.03%	0.03%
Overload pressure	200%F.S	200%F.S	200%F.S	200%F.S
Long term stability	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y
Full-load Consumption	2W	2W	2W	2W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−40°C～100°C	−40°C～100°C	0°C～400°C	−20°C～+60°C
Measurement medium	Oil, water, gas, etc	Oil, water, gas, etc	Oil, water, gas, etc	Oil, water, gas, etc
Electrical connection	Direct lead, aviation plug Hessman	Direct lead, aviation plug Hessman	Direct lead, aviation plug Hessman	Direct lead, aviation plug Hessman
Process Connection	**Threaded and flanged connections**	**Threaded and flanged connections**	**Threaded and flanged connections**	**Sanitary flat membrane connection**

performance parameter				
Name	Explosion proof pressure transmitter	Intelligent differential pressure transmitter	High temperature pressure transmitter	Intelligent pressure switch
Measuring range	-0.1~100MPa Within any range	0~3MPa Within any range	0~1MPa Within any range	-0.1~100MPa Within any range
Output signal	4-20mA，1-5V 0-10V, RS485, etc	4-20mA, RS485, etc	4-20mA，1-5V 0-10V, RS485, etc	4-20mA, relay Output, digital display
Power supply	12-36VDC	12-36VDC	12-36VDC	15-30VDC
Shell protection	IP65	IP65	IP65	IP67
Accuracy level	0.05%，0.075%	0.05%，0.075%	0.1%，0.25%	0.1%，0.25%
Linearity	0.03%	0.03%	0.03%	0.03%
Overload pressure	200%F.S	200%F.S	200%F.S	200%F.S
Long term stability	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y
Full-load Consumption	2W	2W	2W	2W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−40°C～+85°C	−20°C～+80°C
Measurement medium	Oil, water, gas, etc	Oil, water, gas, etc	Dry and non corrosive gas	Oil, water, gas, etc
Electrical connection	Direct lead wire	Direct lead wire	Direct lead wire	Flight plug connection
Process Connection	**Threaded and flanged connections**	**Threaded and flanged connections**	**Baota Mouth M10**	**Threaded connection**

e core as the sensitive element, with built-in processing circuit to amplify and filter the sensor signal into standard current, voltage, RS485 and other signal outputs. It can be directly connected to PLC/DSC, display instruments, computers and other devices for long-distance signal transmission. The product is easy to install and has extremely high seismic and impact resistance.



Introduction

Micro differential pressure transmitter, using imported wind pressure core, is specifically used for measuring wind pressure, air pressure and other micro differential pressures in high-rise buildings, laboratory rooms, pipelines and other occasions. Output standard signals such as current, voltage, RS485, etc., which can be directly connected to PLC/DSC, display instruments, computers, etc. for long-distance signal transmission. The product has high measurement accuracy and extremely high seismic and impact resistance.

Compact pressure transmitter

Features

- Overvoltage and overcurrent protection circuit
- Strong overload resistance, impact resistance, and anti-interference ability
- High stability and long lifespan
- Laser impedance temperature compensation, surge protection
- Imported diffused silicon chips, suitable for Different pressure measurements



Aviation plug-in type | Waterproof connector type | Hessian type

parameters

Power Supply	12V DC～36V DC	Accuracy	0.1%、0.25%
measuring range	-Any range within -0.1~500MPa	Pressure type	Gauge pressure, absolute pressure, sealing pressure
output signal	4-20mA, 1-5V, 0-10V, RS485, etc	Compensation temperature	-10°C～+80°C
Medium temperature	-200~400°C	Overload pressure	200%F.S
natural frequency	5KHZ~650KHZ	Shell protection	IP65

Micro differential pressure transmitter

Features

- High precision and high sensitivity measurement of micro pressure
- Can simultaneously measure pressure and differential pressure
- Reverse polarity protection, current limiting protection
- Laser impedance temperature compensation, surge protection
- Imported diffusion silicon chip, suitable for measuring different pressures





parameters

Power Supply	12V DC～36V DC	Accuracy	0.1%、0.25%
measuring range	Any range within -100KPa~+100KPa	Pressure type	Gauge pressure, absolute pressure, sealing pressure
output signal	4-20mA, 1-5V, 0-10V, RS485, etc	Compensation temperature	-10°C～+80°C
Medium temperature	-20°C～+60°C	Overload pressure	200%F.S
natural frequency	5KHZ~650KHZ	Shell protection	IP65

Flow meter transmitters

Introduction

Intelligent electromagnetic flowmeter, based on the mature Faraday electromagnetic induction law, mainly consists of measuring tube, electrode, excitation coil, pipeline lining and converter.
Mainly used to measure the volumetric flow rate of conductive liquids in closed pipelines. Including strong corrosive liquids such as acids, alkalis, salts, etc. This product is widely used in industries such as petroleum, chemical, metallurgical, textile, food, pharmaceutical, papermaking, as well as environmental protection, municipal, and water conservancy.

Flow control performance parameters

performance parameter				
Name	electromagnetic flowmeter	Turbine flowmeter	Vortex Flowmeter	Quantitative control system
Applicable media	Any conductive liquid	Gas, liquid	Gas, liquid, steam	Any flow meter
output signal	4-20Ma/pulse /frequency	4-20Ma/pulse/frequency	4-20Ma/pulse	/
Power supply	220VAC/24VDC	24VDC/lithium battery power supply	24VDC/lithium battery power supply	220VAC
Instrument caliber	DN10-DN2000	DN4-DN300	DN15-DN300	/
Accuracy level	0.5%	0.5%	0.5%	1%
Nominal pressure	0.6-1.6MPa (Ultra high voltage can be customized)	0.6-1.6MPa (Ultra high voltage can be customized)	0.6-1.6MPa (Ultra high voltage can be customized)	/
Range ratio	1: 20 customizable	1: 20 customizable	1: 20 customizable	/
Body material	304 stainless steel, aluminum casting	304 stainless steel	304 stainless steel	304 stainless steel
Communication output	RS485	RS485	RS485	/
Signal interface	Hesman, three core cable	Hesman, three core cable Internal thread	Hesman, three core cable Internal thread	/
response time	⩽50MS	⩽50MS	⩽50MS	/
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
Medium temperature	−20°C～+160°C	−20°C～+120°C	−20°C～+320°C	/
Protection level	IP65 or higher	IP65 or higher	IP65 or higher	IP65 or higher
Installation method	**Flanges/clamps /threads**	**Flanges/clamps/threads**	**Flanges/clamps**	**Flanges/clamps**

Intelligent electromagnetic flowmeter

Features

- High precision and high sensitivity measurement
- Wide applicability, compatible with various pipelines
- Low pressure loss, high reliability, and leak prevention
- Wide measurement range and complete functions
- Good vibration resistance, suitable for situations with large liquid level fluctuations



parameters

Working power supply	220VAC or 24VDC	Comprehensive accuracy	0.5%
Measurement medium	Conductive medium	Electrode type	316L electrode (standard) Alloy electrode (strong acid-base)
output signal	4-20mA, pulse	work environment	-20°C～+60°C
Flow direction	Positive, negative, net traffic	Communication method	RS485
Installation method	Flange installation, flange clamping, clamps	Shell protection	IP65

Signal isolator

Introduction

The HDGPA series distribution isolator is compatible with both distribution and isolation modes: distribution mode provides working power to the on-site two-wire transmitter, samples the two-wire current signal output by the transmitter, and converts it into a four wire current signal output after isolation processing. Isolation mode, sampling four wire current source signal, outputting four wire signal through isolation, with multiple channels to choose from.

Performance parameters of signal isolators

performance parameter				
Type	HDH series	HDGPA series	HDMS series	HDTD series
Input signal	4-20mA，1-5V，0-10V，± 10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc
output signal	4-20mA，1-5V，0-10V，± 10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc
Number of channels	One in, one out One in, two out	One in one out, one in two out One in, four out, two in, two out Two in, four out	One in, one out One in, two out Two in, two out	One in one out, one in two out One in, four out, two in, two out
Power supply	Input power supply, output,End power supply, DC24V	DC24V,DC12V 85-265VDC/AC	DC24V,DC12V	DC 18-32V
Installation method	35mm guide rail	35mm guide rail	35mm guide rail	35mm guide rail
Accuracy level	0.1%	0.1%	0.1%	0.1%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	1500V/50HZ,1Min	2KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min
Output temperature drift	100ppm/℃	100ppm/℃	60ppm/℃	40ppm/℃
Full-load Consumption	0.6W	2W	2W	2W
Load Capacity	≤500Ω	≤500Ω	≤600Ω	≤800Ω
response time	≤10MS	≤10MS	≤10MS	≤100MS
working temperature	−20℃～+60℃	−20℃～+60℃	−20℃～+60℃	−20℃～+60℃
External dimensions	25.4×108×47mm	22.5×99×115mm	18×122×96mm	12.7×110×118.9mm 17.7×110×118.9mm
Functional Features	**Compact in size**	**Diverse channels**	**The base supports live plugging and unplugging**	**Output active and passive switchable**

HDGPA series distribution isolator

Features

- 0.1% high-precision measurement
- Millisecond level fast response
- Three terminal full isolation, linear correction
- Universal input terminals for two, three, and four wire systems
- Strong isolation, high conversion, low temperature drift
- Multiple channels to choose from



parameters

Working power supply	DC24V,DC12V,85-265VDC/AC	Conversion accuracy	0.1%
power waste	1.2W (one in, one out) 1.8W (one in, two out) 3.0W (one in, four out) 2.4W (two in, two out) 3.5W (two in and four out)	Number of channels	One in, one out One in, two out One in, four out Two in, two out Two in, four out
Input signal	4-20mA，0-75MV 1-5V, 0-10V, etc	output signal	4-20mA，0-75MV 1-5V, 0-10V, etc
Distribution voltage	19-26VDC	output signal	⩾100MΩ, input/output/power supply
Input impedance	100Ω	输出负载	≤500Ω

with both distribution and isolation modes. distribution mode provides working power to the on-site two-wire transmitter, samples the two-wire current signal output by the transmitter, and converts it into a four wire current signal output after isolation processing. Isolation mode, sampling the four wire current source signal, and outputting the four wire signal through isolation. The base supports live plugging and unplugging, and replacing modules with different parameters only requires replacing the upper half without disconnecting the wires.



Introduction

The HDTD series fully intelligent distribution isolator is compatible with both distribution and isolation modes, and adopts many industry-leading technologies such as digital calibration, potentiometer free, and automatic zero calibration internally. Ultra thin shell,**The output signal supports active and passive switching, meeting the different signal type requirements of the backend system.**

HDMS series intelligent distribution isolator

Features

- 0.1% high-precision measurement
- Millisecond level fast response
- Three terminal full isolation, linear correction
- Universal input terminals for two, three, and four wire systems
- Strong isolation, high conversion, low temperature drift
- Thinner shell, supporting live plugging and unplugging



parameters

Working power supply	DC24V,DC12V	Conversion accuracy	0.1%
power waste	1.2W (one in, one out) 1.8W (one in, two out) 2.4W (two in, two out)	Number of channels	One in, one out One in, two out Two in, two out
Input signal	4-20mA，0-75MV 1-5V, 0-10V, etc	output signal	4-20mA，0-75MV 1-5V, 0-10V, etc
Distribution voltage	19-26VDC	output signal	⩾100MΩ, input/output/power supply
Input impedance	100Ω	Output load	⩽600Ω

HDTD series fully intelligent distribution isolator

Features

- 0.05% ultra-high precision measurement
- Universal input terminals for two, three, and four wire systems
- Active output terminal, switchable passive
- Strong isolation, high conversion, low temperature drift
- Ultra thin shell



parameters

Working power supply	DC 18-32V	Conversion accuracy	0.1%
power waste	0.6W (one in, one out) 1.5W (one in, two out) 2.0W (one in, four out) 1.6 W (two in, two out)	Number of channels	One in, one out One in, two out One in, four out Two in, two out
Input signal	4-20mA，0-75MV 1-5V, 0-10V, etc	output signal	4-20mA，0-75MV 1-5V, 0-10V, etc
Distribution voltage	19-26VDC	output signal	⩾100MΩ,input/output/power supply
Input impedance	100Ω	输出负载	⩽800Ω

Temperature produ

Introduction

HDGPA series temperature isolators: support various types of thermal resistors and thermocouple signal inputs, adjustable input temperature range, three terminal isolation of input, output, and power supply, with online fault self diagnosis and other functions. Output various analog signals, and support isolated output of thermal resistance and thermocouple temperature signals. It can also output analog and temperature signals simultaneously.

Performance parameters of temperature isolators

performance parameter			
Type	HDH series	HDGPA series	HDTW series
Input signal	Thermal resistance: PT100, PT1000 Thermocouple: KSBJNTE type, etc	Thermal resistance: PT100, PT1000 Thermocouple: KSBJNTE type, etc	Thermal resistance: PT100, PT1000 Thermocouple: KSBJNTE type, etc
output signal	4-20mA, 1-5V, 0-10V, etc	4-20mA，1-5V，0-10V Thermistor or thermocouple signal	4-20mA, 1-5V, 0-10V, etc
Number of channels	One in, one out	One in one out, one in two out Two in, two out	One in one out, one in two out Two in, two out
Power supply	DC24V,DC12V	DC24V,DC12V,85-265VDC/AC	DC 18-32V
Installation method	35mm guide rail	35mm guide rail	35mm guide rail
Accuracy level	0.2%	0.1%	0.05%
Linearity	0.1%	0.1%	0.05%
Dielectric Strength	1500V/50HZ,1Min	2KV/50HZ,1Min	3KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	40ppm/°C
Full-load Consumption	0.6W	2W	2W
Load Capacity	≤500Ω	≤500Ω	≤800Ω
response time	≤10MS	≤200MS	≤200MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	25.4×108×47mm	12.5×99×115mm 22.5×99×115mm	12.7×110×118.9mm 17.7×110×118.9mm
Functional Features	**Compact in size**	**Can isolate and output two temperature signals**	**Output active and passive switchable**

HDGPA series temperature isolator

Features

- 0.1% high-precision measurement
- Cold end compensation, linear correction
- Simultaneous output of temperature and analog quantity
- Multiple channels to choose from



parameters

Working power supply	DC24V,DC12V,85-265VDC/AC	Conversion accuracy	0.1%
power waste	1.2W (one in, one out) 1.8W (one in, two out) 2.4W (two in, two out)	Number of channels	One in, one out One in, two out Two in, two out
Input signal	PT100, PT1000, CU50, etc Thermocouples such as thermistor and KSBJNT	output signal	4-20mA，1-5V，0-10V Thermistor or thermocouple signal
Cold end compensation range	-20°C～+60°C	output signal	≥100MΩ, input/output/power supply
Cold end compensation accuracy	± 1 °C (preheating time 10 minutes)	输出负载	≤500Ω

Current transmitters

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Performance parameters of current transmitter

performance parameter				
Type	HDH series	HD-BS-A series	HDHL-1 series	HDHL-B12 series
Input signal	0-1A,0-5A, 0-10A, 0-20A, etc	0-1A,0-5A, 0-10A, 0-20A, etc	0-1A,0-5A, 0-10A, 0-20A, etc	0-5A,0-10A, 0-50A, 0-100A, etc
output signal	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA,20-4mA 0-10V, switch quantity, etc	4-20mA,20-4mA 0-10V, switch quantity, etc
Wiring method	Direct wiring type	Direct wiring type	Direct wiring type	8mm, 12mm perforation
Power supply	DC24V	85-265VDC/AC	DC24V,DC12V，AC220V, etc	DC24V,DC12V，AC220V, etc
Installation method	35mm guide rail	35mm guide rail	35mm rail or screw	35mm rail or screw
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	2KV/50HZ,1Min	2KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Full-load Consumption	1W	1W	1W	1W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	25.4×108×47mm	23×92×135mm	24×99×65mm	24×99×65mm
Functional Features	**Compact in size**	**AC/DC power supply**	**Compact in size**	**Integrated mutual inductance and transmission**

performance parameter				
Model	HDHL-B22 series	HDHL-B35 series	HDHL-K38 series	HDHL-F17 series
Input signal	0-50A,0-100A, 0-200A, 0-500A, etc	0-100A,0-200A, 0-500A, 0-1000A, etc	0-100A,0-200A, 0-500A, 0-1000A, etc	0-100A,0-200A, 0-500A, 0-1000A, etc
output signal	4-20mA,20-4mA, 0-10V, switch quantity, etc	4-20mA,20-4mA, 0-10V, switch quantity, etc	4-20mA,20-4mA, 0-10V, switch quantity, etc	4-20mA,20-4mA, 0-10V, switch quantity, etc
Wiring method	22, 31mm closed mouth	35, 55, 72mm closed mouth	25, 38, 50, 80mm openings	100 * 40mm opening 64 * 17mm opening
Power supply	DC24V,DC12V AC220V, etc	DC24V,DC12V AC220V, etc	DC24V,DC12V AC220V, etc	DC24V,DC12V, etc
Installation method	35mm guide rail	Screw installation	Screw installation	Screw installation
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Full-load Consumption	1W	1W	1W	1W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	24×106×60mm	19×90×100mm	10×94×85mm	24×120×63mm
Functional Features	**Directly measure the current within 0-500A**	**Directly measure the current within 0-1500A**	**Directly measure the current within 0-1500A**	**Measure current within 0-1500A through copper bars**

magnetic principle to directly convert the current signal from the industrial field transformer into a standard analog signal, and the input and output signals are linearly related.



Introduction

The perforated series current transmitter integrates mutual inductance and transmission, which can directly convert the measured large current into analog signals such as DC current or DC voltage output in linear proportion, as well as switch signals. It uses zero magnetic flux, magnetic balance, Hall principle, etc. to measure DC, AC, pulse current and any other waveform.

HD-BS-A series AC current transmitter

Features

- 0.2% high-precision measurement
- If it exceeds 20A, it needs to be used in conjunction with a transformer
- 85-265VDC/AC AC AC/DC power supply
- Three terminal full isolation, high voltage resistance



parameters

Working power supply	85-265VDC/AC	Conversion accuracy	0.2%
power waste	1.0W	Number of channels	One in, one out
Input signal	0-1A, 0-5A, 0-10A, 0-20A, etc	output signal	4-20mA, 1-5V, 0-10V, etc
working temperature	-20℃～+60℃	insulation resistance	⩾100MΩ, INPUT /OUTPUT/POWER SUPPLY
Dielectric Strength	3KV/50HZ,1Min	Output load	⩽500Ω
Frequency bandwidth	40-60HZ	Output temperature drift	⩽100ppm/℃

Perforated series current transmitter

Features

- 0.2% high-precision measurement
- Integrated transformer and transmission, no need for transformer
- Wide bandwidth and good linearity
- Three end fully isolated and stable
- Ultra thin shell





Type A Type B Type C Type D

parameters

Working power supply	DC24V, DC12V, AC220V, etc	Conversion accuracy	0.2%
power waste	1.0W	resolving power	0.1%PN
Input signal	0-5A, 0-50A, 0-100A, 0-500A, etc	output signal	4-20mA, 1-5V, 0-10V, 20-4mA, switch quantity, etc
working temperature	-20℃～+60℃	insulation resistance	⩾100MΩ, INPUT /OUTPUT/POWER SUPPLY
Dielectric Strength	3KV/50HZ,1Min	Output load	⩽500Ω
Frequency bandwidth	20-5KHZ	Output temperature drift	⩽100ppm/℃
working principle	Zero magnetic flux, magnetic balance, Hall principle	response time	⩽100MS

Voltage transmitters

Introduction

The HDH series voltage transmitter isolates and converts DC and AC voltage signals from industrial sites into standard analog signals such as 4-20mA and 0-10V, which are transmitted to control rooms, PLCs, DCS, and display instruments.

Performance parameters of voltage transmitter

performance parameter				
Type	HDH series	HD-BS-U series	HD-T2U series	HDB-V1 series
Input signal	0-10V,0-50V 0-100V, 0-500V, etc	0-50V,0-100V 0-500V, 0-1000V, etc	0-10V,0-50V 0-100V, 0-500V, etc	0-50V,0-100V 0-500V, 0-1000V, etc
output signal	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc
Wiring method	Direct wiring type	Direct wiring type	Direct wiring type	Direct wiring type
Power supply	DC24V	85-265VDC/AC	DC24V, DC12V, AC220V, ETC	DC24V, 85-265VDC/AC, ETC
Installation method	35mm guide rail	35mm guide rail	35mm rail or screw	35mm rail or screw
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min	5KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Full-load Consumption	1W	1W	1W	1W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	25.4×108×47mm	23×92×135mm	24×99×65mm	55×119×75mm
Functional Features	**Compact in size**	**AC/DC power supply**	**Compact in size**	**High voltage resistance**

HDH series voltage transmitter



Features

- 0.2% high-precision measurement
- High integration and small size
- Good linearity
- Three end fully isolated and stable

parameters

Working power supply	DC24V,DC12V	Conversion accuracy	0.2%
power waste	1.0W	resolving power	0.1%PN
Input signal	0-10V,0-50V 0-100V, 0-500V, etc	output signal	4-20mA，1-5V 0-10V, 20-4mA, etc
working temperature	-20°C～+60°C	insulation resistance	⩾100MΩ, input/output /power supply
Dielectric Strength	3KV/50HZ,1Min	Output load	⩽500Ω
Frequency bandwidth	40-60KHZ	Output temperature drift	⩽100ppm/°C
working principle	Zero magnetic flux and magnetic balance principle	response time	⩽100MS

Electric transmitters

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Performance parameters of power transmitter

performance parameter				
Name	Three phase current transmitter	Perforated three-phase current transmitter	Three phase voltage transmitter	MCZ Frequency
Measuring range	0-1A,0-5A, 0-10A, 0-20A, etc	0-5A,0-50A, 0-100A,0-500A, etc	0-100V,0-200V, 0-500V,0-1000V, etc	0-100HZ,0-1KHZ, 0-5KHZ,0-100KHZ, etc
Output signal	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc
Wiring method	Direct wiring type	Direct wiring type	Direct wiring type	8mm, 12mm perforation
Power supply	DC24V, 85-265VDC/AC	DC24V	85-265VDC/AC	DC24V,DC12V,AC220V,etc
Installation method	35mm rail or screw	Screw installation	35mm rail or screw	35mm rail or screw
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Full-load Consumption	3W	3W	3W	1W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	25.4×108×47mm	23×92×135mm	24×99×65mm	24×99×65mm
Functional Features	**Compact in size**	**Integrated mutual inductance and transmission**	**Compact in size**	**Measure the frequency of any waveform**

performance parameter				
Name	Power transmitter	Power factor transmitter	Combination power transmitter	Digital multifunctional transmitter
Input signal	Single phase/three-phase active power Reactive power, combined power	Single phase/three-phase power factor	Current, voltage, frequency Simultaneously input	Current, voltage, power Power factor, electrical energy
output signal	4-20mA,0-10V, RS485, etc	4-20mA,0-10V, RS485, etc	4-20mA,0-10V, RS485, etc	4-20mA,0-10V, RS485, etc
Power supply	DC24V, AC220V	DC24V, AC220V	DC24V, AC220V	DC24V, AC220V
Installation method	35mm guide rail	35mm guide rail	35mm guide rail	35mm guide rail
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.1%	0.1%
Dielectric Strength	3KV/50HZ,1Min	3KV/50HZ,1Min	3KV/50HZ,1Min	2KV/50HZ,1Min
Output temperature drift	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C
Full-load Consumption	3W	3W	3W	3W
Load capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	55*75*120mm 110*75*120mm	55*75*120mm 110*75*120mm	110*75*120mm	110*75*120mm
Functional Features	**Measure active and reactive power Combined power**	**Measure single-phase Three phase power factor**	**Simultaneously measure current and voltage Frequency and other signals**	**Multi functional measurement Digital display+transmission integrated**

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h mutual inductance and transmission, no need to configure a separate transformer, high current can be directly measured through perforated input. The input end, output end, and power supply end are isolated, and various analog signals such as 4-20mA and 0-10V are output.



Introduction

Power transmitter: supports single-phase two-wire, three-phase three wire, and three-phase four wire power measurement, and can measure active power, reactive power, active reactive combined power, DC power, etc. **Output various analog signals and support RS485 communication.** It can be widely used in places with high power measurement requirements for both power and non power systems, and can operate continuously for a long time to achieve measurement and control of system power. This instrument has high measurement accuracy, good conversion linearity, good electromagnetic compatibility, and the ability to measure reverse active power.

Perforated three-phase current transmitter

Features

- 0.2% high-precision measurement
- Integrated mutual inductance and transmission
- New electromagnetic isolation and low-power consumption
- Three channel measurements



parameters

Working power supply	DC24V,DC12V	Conversion accuracy	0.2%
power waste	3.0W	resolving power	0.1%PN
Input signal	0-5A, 0-50A, 0-100A, 0-500A, etc	output signal	4-20mA, 1-5V, 0-10V, etc
working temperature	-20℃～+60℃	insulation resistance	⩾100MΩ, input/output /power supply
Dielectric Strength	3KV/50HZ,1Min	Output load	⩽500Ω
Frequency bandwidth	40-60HZ	Output temperature drift	⩽100ppm/℃
working principle	Zero magnetic flux and magnetic balance principle	response time	⩽100MS

Power transmitter

Features

- 0.2% high-precision measurement
- Σ - Δ high-precision digital multiplication operation
- Analog output+RS485 communication
- Support digital display function



parameters

Working power supply	DC24V,DC12V,85-265VDC/A	Conversion accuracy	0.1%
power waste	1.2W (one in, one out) 1.8W (one in, two out) 2.4W (two in, two out)	Number of channels	One in, one out One in, two out Two in, two out
Input signal	PT100, PT1000, CU50 and other thermal resistors KSBJNT and other thermocouples	output signal	4-20mA，1-5V，0-10V Thermistor or thermocouple signal
Cold end compensation range	-20°C～+60°C	insulation resistance	⩾100MΩ, INPUT /OUTPUT/POWER SUPPLY
Cold end compensation accuracy	±1°C(preheating time 10 minutes)	Output load	⩽500Ω

Safety barrier

Introduction

Isolation safety barrier, which converts analog signals, switch signals, temperature signals, and frequency signals from hazardous areas into intrinsic safety signals through isolation conversion and rated current voltage limiting, and outputs them to the safe area. This product supports HART digital signal transmission and has functions such as online fault self diagnosis. It is an intelligent safety barrier product with CE certification and EX (ia) II C explosion-proof certificate. It can be widely used in coal mines, petrochemicals and other occasions that require intrinsic safety explosion-proof.

Isolation safety barrier performance parameters

performance parameter				
Type	Analog series	Switching series	Temperature input series	Frequency input series
Input signal	4-20mA，1-5V 0-10V, etc	Dry contact or NAMUR Proximity switch	Thermistor and thermocouple signals	Frequency signal
output signal	4-20mA，1-5V 0-10V, etc	Relay contacts	4-20mA，1-5V 0-10V, etc	4-20mA，1-5V 0-10V, etc
Number of channels	One in, one out One in, two out Two in, two out	One in, one out One in, two out Two in, two out	One in, one out One in, two out Two in, two out	One in, one out One in, two out Two in, two out
Power supply	18V DC～32V DC	18V DC～32V DC	18V DC～32V DC	18V DC～32V DC
Installation method	35mm guide rail	35mm guide rail	35mm guide rail	35mm guide rail
Accuracy level	0.1%	0.1%	0.1%	0.05%
Linearity	0.1%	0.1%	0.05%	0.05%
Dielectric Strength	⩾3000 V AC	⩾3000 V AC	⩾3000 V AC	⩾3000 V AC
Output temperature drift	30ppm/°C	30ppm/°C	40ppm/°C	40ppm/°C
Full-load Consumption	1W	1W	1W	1W
Load capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽2MS	⩽20MS	⩽50MS	⩽50MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	12.7×110×119mm 17.7×110×119mm	12.7×110×119mm 17.7×110×119mm	12.7×110×119mm 17.7×110×119mm	12.7×110×119mm 17.7×110×119mm
Functional Features	**AI analog input AO analog output**	**DI switch input DO switch output**	**Thermal resistance input Thermocouple Input**	**Frequency input**

Isolation safety barrier

Features

- 0.1% high-precision measurement
- Having explosion-proof certification
- Online fault self diagnosis
- Universal input terminals for two, three, and four wire systems
- Multiple channels to choose from





parameters

Working power supply	18V DC～32V DC	Conversion accuracy	0.1%
power waste	1.3W (one in, one out) 1.8W (one in, two out) 2.4W (two in, two out)	Number of channels	One in, one out One in, two out Two in, two out
Input signal	Analog quantity, switch quantity, temperature, frequency signal, etc	Explosion proof grade	EX(ia) II C
Distribution voltage	16-26VDC	insulation resistance	⩾100MΩ, input/output /power supply
Input impedance	100Ω	Output load	⩽500Ω

Protector transmitters

Introduction

Surge protectors can connect the protected lines to the equipotential system in the shortest possible time, limit the surge to a certain voltage protection level, and quickly release high-voltage pulse energy caused by lightning strikes to the ground, reducing the potential difference between various connections and serving as protective distribution equipment. And it can be used to protect signal detection and control equipment, prevent external interference such as transient surges and transient voltages caused by lightning strikes or high-voltage switches, and ensure the normal transmission of signals on signal lines, providing safety protection for industrial automation equipment.

Performance parameters of surge protector

performance parameter				
Type	Power surge protector	Intrinsic safety signal surge protector	On site tubular series type Surge protective device	Non intrinsic safety surge protector
Input signal	400VAC，230VAC，24VDC，12VDC，5VDC	AI/A0/DI/DO Thermistor/RS485	AI/A0/DI/DO/RS485	250VAC/24VDC 12VDC/AI/A0/RS485
Nominal placement Electric current	20KA	10KA	10KA	10KA
Maximum release Electric current	40KA	20KA	20KA	20KA
Protection voltage	⩽1.8 kV	L-L⩽60V/ L-PE⩽650V	L-L⩽60V/ L-PE⩽650V	⩽1.8 kV
Installation method	35mm guide rail	35mm guide rail	Threaded installation	35mm guide rail
Maximum afterwards Backup fuse	⩽125 A GL/GG	⩽125 A GL/GG	⩽125 A GL/GG	⩽125 A GL/GG
Short circuit resistance Ability to accept	25 kArms	25 kArms	25 kArms	25 kArms
Remote signaling function	Optional selection	Optional selection	Optional selection	nothing
response time	⩽25 ns	⩽25 ns	⩽25 ns	⩽100 ns
working temperature	-40～+80°C	-40～+80°C	-40～+80°C	-40～+80°C
Protection level	IP20	IP20	IP20	IP20
Security certification	FCC，CE，EX	FCC，CE，EX	FCC，CE，EX	CE
External dimensions	18×90×70mm	7.4×95×70mm	24×95mm	23×90×70mm
Functional Features	For AC and DC power sources Implement lightning protection	Perform various signal processing Lightning protection	Perform various signal processing Lightning protection	Perform power and signal analysis Lightning protection

Surge protective device

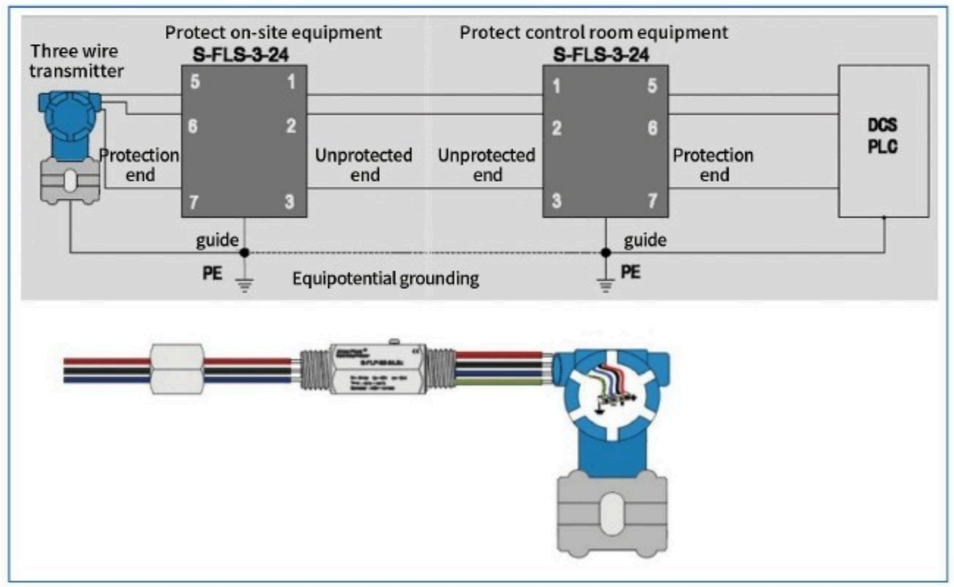
Features

- Integrated design, space saving
- Hybrid protection circuit design with strong surge resistance capability
- Supporting terminal grounding (optional)
- Multiple models to choose from, suitable for all measurements Control system equipment





parameters



Acquisition transmitters

Introduction

The signal acquisition module can collect analog, switch, temperature and other signals, and can be widely used for signal acquisition, monitoring and control of industrial field equipment. The analog signal adopts a single ended input method, the switch input adopts photoelectric isolation, and each relay output has two normally open/normally closed contacts. The communication interface adopts RS-485 interface and supports standard MODBUS RTU protocol, which can be directly connected to configuration software, PLC, DCS industrial control touch screen.

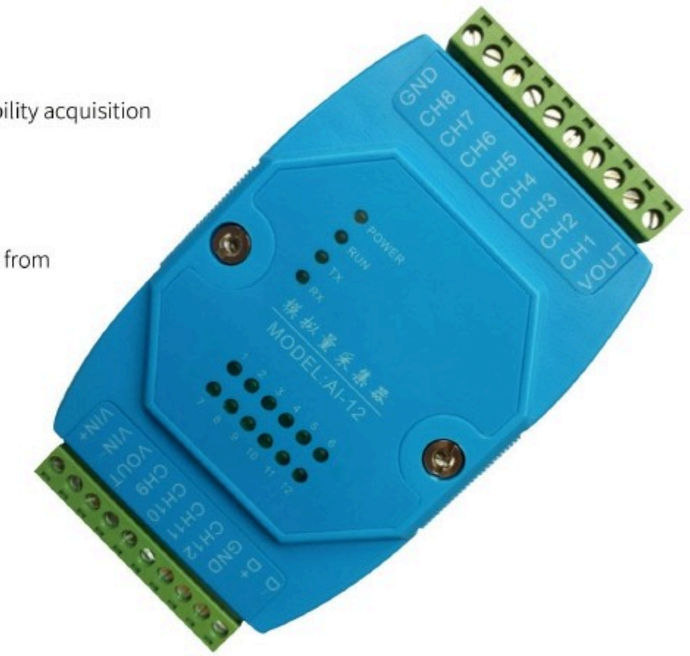
Signal acquisition performance parameters

performance parameter				
Type	Analog series	Switching series	Temperature input series	RS485 Relay Series
Input signal	4-20mA，1-5V 0-10V, etc	DRY CONTACT OR NAMUR PROXIMITY SWITCH	Thermistor and thermocouple signals	RS485 signal
output signal	RS485/RS232	RS485/RS232	RS485/RS232	RS485/RS232
Number of channels	Route 4, Route 8 Route 12, Route 32	Route 4, Route 8 Route 12, Route 32	Route 6, Route 8, Route 12	One in, two out One in, four out
Power supply	9V DC～32V DC	9V DC～32V DC	9V DC～32V DC	9V DC～32V DC
Accuracy level	0.2%	0.2%	0.2%	0.2%
Linearity	0.1%	0.1%	0.05%	0.05%
Communication Protocol	MODBUS-RTU	MODBUS-RTU	MODBUS-RTU	MODBUS-RTU
Baud rate	2400/4800/9600/ 19200 optional	2400/4800/9600/ 19200 optional	2400/4800/9600/ 19200 optional	2400/4800/9600/ 19200 optional
Full load power consumption	1W	1W	1W	1W
Installation method	35mm guide rail	35mm guide rail	35mm guide rail	35mm guide rail
response time	≤100MS	≤20MS	≤500MS	≤500MS
working temperature	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C	−20°C～+60°C
External dimensions	26×104×72mm	26×104×72mm	26×104×72mm	26×104×72mm
Functional Features	AI analog input AO analog output RS485 communication acquisition	DI switch input DO switch output RS485 communication acquisition	Thermal resistance input Thermocouple Input RS485 communication acquisition	Splitting RS485 signals into multiple channels

Signal acquisition module

Features

- High precision and high stability acquisition
- Save control system ports
- Support mixed collection
- Multiple channels to choose from



parameters

Working power supply	9V DC～32V DC	Conversion accuracy	0.2%
power waste	1W	Number of channels	Route 4, Route 8, Route 12
Input signal	Analog quantity, switch quantity, temperature, etc	resolving power	16BIT
sampling frequency	1000HZ	Interface protection	1500V isolation protection
Communication Protocol	MODBUS-RTU protocol	Interface type	Optoelectronic isolation RS485 communication interface

Recorder transmitters

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Record and display performance parameters

performance parameter				
Name	Paperless recorder	Multi channel paperless recorder	Flow/temperature integrator	Paper recorder
Model	HD-R6100	HD-R7100	HD-F3000X	HD-R1200
Input signal	Current and voltage Resistors, electric couples, etc	Current and voltage Resistors, electric couples, etc	Current, voltage, frequency Resistors, electric couples, etc	Current, voltage, frequency Resistors, electric couples, etc
Power supply	100-240VAC Or 24VDC	100-240VAC OR 24VDC	220VAC OR 12-36VDC	100-240VAC
display	4.3-inch color screen	7-inch color screen	Monochrome LCD	OLCD
Accuracy level	Level 0.2	Level 0.2	Level 0.2	Level 0.2
processor	32-bit	32-bit	32-bit	32-bit
Input channel	1-4 channels are optional	1-16 channels are optional	1-4 channels are optional	1-10 channels are optional
Record interval	1-240 seconds, 11th gear	1-240 seconds, 11th gear	1-240 seconds, 11th gear	Can be set from 10mm/h to 1990mm/h
Alarm output	4-channel relay	6-way relay	2-channel relay	6-way relay
Analog output	2-channel 4-20mA	4-channel 4-20mA	1 channel 4-20mA	4-channel 4-20mA
Distribution output	1 channel 24V 60mA	3-channel 24V 60mA	1 channel 24V 60mA	3-channel 24V 60mA
Accumulation function	Have	Have	Have	Have
Transfer method	USB drive	USB drive	USB drive	USB drive
Communication method	RS485 and RS232C	RS485 and RS232C	RS485 and RS232C	RS485 and RS232C
Hole size	**152*76mm**	**138*138mm**	**152*76mm**	**138*138mm**

performance parameter				
Name	Single-phase digital display meter	Three-phase ammeter	Multi functional power meter	LCD multifunctional meter
measuring range	Single phase current and voltage Frequency, power, etc	three-phase current Voltage, power, etc	Voltage and current Power, frequency, and electrical energy	Voltage and current Power, frequency, and electrical energy
output signal	4-20mA，1-5V Relays, RS485, etc	4-20mA，1-5V Relays, RS485, etc	4-20mA，1-5V Relays, RS485, etc	4-20mA，1-5V Relays, RS485, etc
Power supply	AC/DC 85-265V	AC/DC 85-265V	AC/DC 85-265V	AC/DC 85-265V
Electric energy pulse	Passive optocoupler collector output	Passive optocoupler collector output	Passive optocoupler collector output	Passive optocoupler collector output
Accuracy level	Level 0.5	Level 0.5	Level 0.5	Level 0.5
Linearity	0.03%	0.03%	0.03%	0.03%
Overload range	200%F.S	200%F.S	200%F.S	200%F.S
Long term stability	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y	±0.2%F.S/y
Full-load Consumption	1W	2W	2W	2W
Load Capacity	⩽500Ω	⩽500Ω	⩽500Ω	⩽500Ω
response time	⩽50MS	⩽50MS	⩽50MS	⩽100MS
working temperature	−20°C～+60°C	0°C～+80°C	−40°C～+85°C	−20°C～+80°C
Communication method	RS485，MODBUS	RS485，MODBUS	RS485，MODBUS	RS485，MODBUS
Hole size	45*45mm 76*76mm, etc	76*76mm 111*111mm, etc	76*76mm 111*111mm, etc	76*76mm 111*111mm等
Installation method	**Panel installation**	**Panel installation**	**Panel installation**	**Panel installation**

eed and
high-performance 32-bit Cortex-M4 microprocessor, with a screen response time of less than 0.1 seconds. It can simultaneously detect, record, display, and alarm 16 signals. The internal circuit board is treated with "anti-corrosion, moisture-proof, and dust-proof" coating.

High performance power supply technology, powerful anti-interference ability, effectively suppresses external harmonic interference, greatly improving the stability of the power supply and the whole machine.



Introduction

Multi functional power meter, with high-precision real-time measurement of power parameters, harmonic measurement, forward and reverse active/reactive energy measurement, time-sharing energy measurement, power quality analysis, real-time waveform display, event recording and other functions, and equipped with rich input and output interfaces for monitoring and control of on-site equipment status. It also integrates RS485 communication interface and can be integrated with various intelligent distribution systems and energy management systems to share rich monitoring data and power quality data.

HD-R series paperless recorder

Features

- International standard size
- TFT True Color LCD Display Screen
- 16 channel multifunctional analog signal input
- 4 parameter display modes





parameters

Working power supply	24V DC,100-240VAC	Record interval	Available from 1 second to 240 seconds
Record capacity	64/128/248MB optional	Data backup and storage transfer	Supports 1G-32G USB drives
output signal	Relay alarm, 24VDC power distribution RS485 communication	Storage time	From 9 days to 90 years (Specifically determined based on the time recording interval)
Medium temperature	-20°C～+60°C	Overload pressure	300%F.S
Accuracy level	0.2%	Protective function	Power outage protection, clock protection

Multi functional power meter

Features

- High precision and high sensitivity measurement
- High cost-effectiveness, can replace conventional power transmitters Measuring instruments and auxiliary units
- The menu is intuitive and the button operation is simple
- Integrate on-site display, remote transmission, and alarm Control in one, freely adjustable, fully functional
- Support fire linkage and remotely cut off faulty circuits





parameters

Working power supply	85~265V AC/DC	Comprehensive accuracy	0.5%
measuring range	Current, voltage, power, frequency, electrical energy	Wiring method	Three phase three wire, three phase four wire
output signal	4-20mA, relay alarm, RS485	Switching input	Support 4-channel dry contact input
Electric pulse output	Support 2-channel power pulse output	Voltage resistance level	AC2000V
Installation method	Side mounted, top mounted, DN20 flange installation	Hole size	76 * 76mm/111 * 111mm, etc