

Pressure Transmitter

Description

▲ Pressure sensor has been specially designed to cover the majority of industrial applications which need high accuracy measurement.

▲ QDX50A pressure sensor is made of stainless steel, the pressure sensing elements are selected from good suppliers. Special circuits are adopted to adjust zero and full range conveniently.

▲ This pressure transducer has been approved with CE, FCC, ROHS, ISO certificates, and explosion-proof certificates.

▲ Customized structures and outputs formats can be designed according to special application requirement, in addition to standard products.

Selection

QDX50A	-	-	-	-	Notes
Range					-0.1~0~100MPa
Output signal	O1				4-20mA
	O2				0-5Vdc
	O3				1-5Vdc
	O4				0-10Vdc
	O5				RS485
Power supply	P1				12Vdc
	P2				24Vdc
Thread size			T1		M20*1.5, Customization

Specifications

Model: QDW90A series

Measuring range: -0.1MPa~0~100MPa

Pressure type: Gauge pressure, Absolute pressure, Seal pressure

Output signal:

4-20mA, 0-20mA, 1-5V, 0-5V, 0-10V, Customization

Power supply: 12~36VDC(24VDC)

Accuracy: 0.5%FS(Default), 0.2%FS(Customization)

Response time: <8ms

Overload pressure: 200%FS

Ambient temperature: -40~85°C

Compensation temperature: -10~70°C

Protection grade: IP65

Long-term stability: $\leq 0.2\%FS/^\circ C$

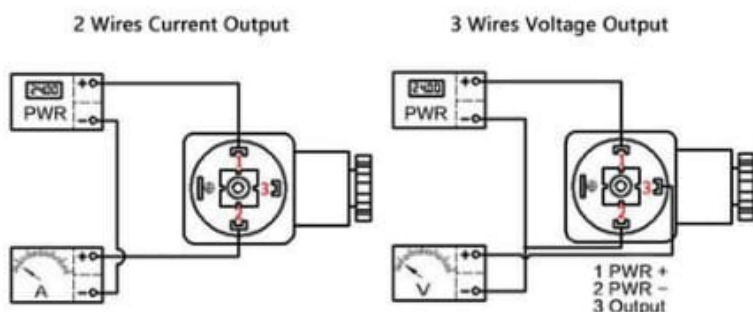
Zero temperature drift: $\pm 0.03\%FS/^\circ C$

Sensitivity temperature drift: $\pm 0.03\%FS/^\circ C$

Natural frequency: 5KHz~65KHz

Thread size: M20×1.5(Default), Customization

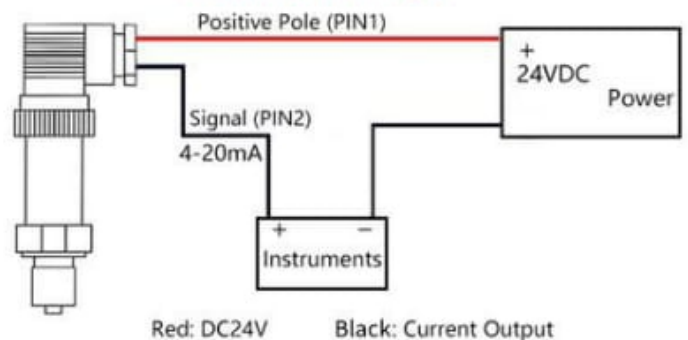
Wiring Diagram



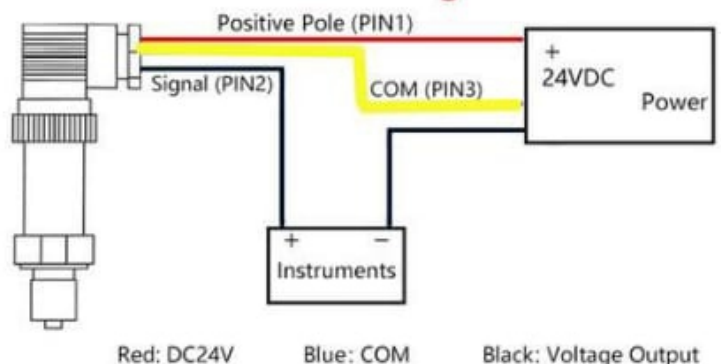
Features

- ▲ SS304 SS316 stainless steel material body
- ▲ Imported diffusion silicon chip, 8ms instantaneous response
- ▲ Pure copper core, high melting point, high temperature resistant
- ▲ Imported core body, 0.2%FS high precision, strong anti-interference
- ▲ Anti-damping design thread, resistant to 300% instantaneous impact
- ▲ PVE engineer plastic outlet terminal, flame retardant, pressure resistant

2 Wires Wiring



3 Wires Wiring



● Technical Parameters

Technical Parameters	Drop-type level transmitter	Split-type level transmitter	High temperature level transmitter	Direct plug transmitter
Model	Drop-type level transmitter	Split-type level transmitter	High temperature level transmitter	Direct plug transmitter
Measuring Range	Arbitrary range within 1-500M	Arbitrary range within 1-500M	Arbitrary range within 1-500M	Arbitrary range within 1-100M
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	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S
Linearity	0.03%	0.03%	0.03%	0.03%
Overload Pressure	300NF.S	300NF.S	300NF.S	300NF.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	<5000	<5000	<5000	<5000
Response Time	<50MS	<50MS	<50MS	<50MS
Working Temperature	-20℃~+60℃	-20℃~+60℃	0℃~+300℃	0℃~+300℃
Measuring Medium	Non-corrosive liquid	Non-corrosive liquid	High temperature liquid	Non-corrosive liquid
Material	Core 316 diaphragm, shell 304, rubber wire	Core 316 diaphragm, shell 304, rubber wire	Core 316 diaphragm, shell 304, rubber wire	Core 316 diaphragm, shell 304, rubber wire
Measuring Method	Sink into probe the bottom of the liquid	Sink into probe the bottom of the liquid	Sink into probe the bottom of the liquid	Insert the bottom of the liquid

Technical Parameters	Drop-type level transmitter	Magnetic level gauge	Ultrasonic level meter	Digital beam controller
Model	Drop-type level transmitter	Magnetic level gauge	Ultrasonic level meter	Digital beam controller
Measuring Range	Arbitrary range within 1-500M	Arbitrary range within 1-15M	Arbitrary range within 5-60M	Analog, temperature, 33 signals input
Output Signal	4-20mA, 1-5V, 0-10V, RS485 etc.	4-20mA remote transmission, upper and lower limit relay alarm	4-20mA, RS485, Relay alarm	4-20mA, Relay output, 33 signals input
Power Supply	12-28VDC	24VDC	24VDC, 220VAC	220VAC
Shell Protection	IP68	IP65	IP65	IP65
Accuracy	0.1%F.S, 0.2%F.S	0.2%F.S, 0.5%F.S	0.2%F.S, 0.5%F.S	0.3%F.S
Linearity	0.03%	0.03%	0.03%	0.03%
Overload Pressure	300NF.S	200NF.S	200NF.S	200NF.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	<5000	<5000	<5000	<5000
Response Time	<50MS	<50MS	<50MS	<50MS
Working Temperature	-20℃~+60℃	0℃~+60℃	-40℃~+85℃	-20℃~+80℃
Measuring Medium	Non-corrosive liquid	Non-corrosive liquid	Arbitrarily object	Oil, water, gas, etc.
Material	Core 316 diaphragm, shell 304	Shell 304	Engineering plastic	Engineering plastic
Measuring Method	Flange installation	Flange installation, top loading, side mounting	Non-contact measurement	Steel installation, optional control box

● Technical Parameters

Technical Parameters	Small pressure transmitter	Digital display pressure transmitter	High temperature pressure transmitter	Sanitary pressure transmitter
Model	Small pressure transmitter	Digital display pressure transmitter	High temperature pressure transmitter	Sanitary pressure transmitter
Measuring Range	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa
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	12-28VDC	12-28VDC	12-28VDC	12-28VDC
Shell Protection	IP65	IP65	IP65	IP65
Accuracy	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S
Linearity	0.03%	0.03%	0.03%	0.03%
Overload Pressure	200NF.S	200NF.S	200NF.S	200NF.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	<5000	<5000	<5000	<5000
Response Time	<50MS	<50MS	<50MS	<50MS
Working Temperature	-20℃~+60℃	-20℃~+60℃	0℃~+200℃	-20℃~+60℃
Measuring Medium	Oil/water/gas etc.	Oil/water/gas etc.	Oil/water/gas etc.	Oil/water/gas etc.
Electrical Connection	Direct lead, Aeronautical plug, Hirschmann	Direct lead, Aeronautical plug, Hirschmann	Direct lead, Aeronautical plug, Hirschmann	Direct lead, Aeronautical plug, Hirschmann
Process Connection	Thread, Flange connection	Thread, Flange connection	Thread, Flange connection	Thread, Flange connection

Technical Parameters	Shell pressure transmitter	Smart differential pressure transmitter	High temperature pressure transmitter	Sanitary pressure transmitter
Model	Shell pressure transmitter	Smart differential pressure transmitter	High temperature pressure transmitter	Sanitary pressure transmitter
Measuring Range	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa	Arbitrary range within 0.1-100MPa
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	12-28VDC	12-28VDC	12-28VDC	12-28VDC
Shell Protection	IP65	IP65	IP65	IP65
Accuracy	0.1%F.S, 0.2%F.S	0.1%F.S, 0.2%F.S	0.2%F.S, 0.5%F.S	0.1%F.S, 0.2%F.S
Linearity	0.03%	0.03%	0.03%	0.03%
Overload Pressure	200NF.S	200NF.S	200NF.S	200NF.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	<5000	<5000	<5000	<5000
Response Time	<50MS	<50MS	<50MS	<50MS
Working Temperature	-20℃~+60℃	-20℃~+60℃	-40℃~+85℃	-20℃~+60℃
Measuring Medium	Oil/water/gas etc.	Oil/water/gas etc.	Dry/non corrosive gas	Oil/water/gas etc.
Electrical Connection	Direct lead	Direct lead	Direct lead	Aeronautical plug connection
Process Connection	Thread, Flange connection	Thread, Flange connection	Thread, Flange connection	Thread connection

● Small Pressure Transmitter

Features

- Over-voltage over-current protection circuit.
- Strong ability of anti overload, impact resistance and anti-interference.
- High stability and long service life.
- Laser impedance modulation, temperature compensation, surge prevention.
- Imported silicon chips, suitable for different pressure measurement.

Parameters

Power Supply	12V DC~36V DC	Accuracy	0.1%F.S, 0.2%F.S
Measuring Range	Arbitrary range within 0.1-100MPa	Pressure Type	Gage pressure, Absolute pressure, Seal pressure
Output Signal	4-20mA, 1-5V, 0-10V, RS485 etc.	Compensation temperature	-10℃~+80℃
Medium Temperature	-20℃~+60℃	Overload pressure	200NF.S
Natural frequency	5KHZ~55KHZ	Shell Protection	IP65

● Differential Pressure Transmitter

Features

- High precision, high sensitivity measurement of differential pressure.
- Simultaneous measurement of pressure and differential pressure.
- Reverse polarity protection, current limiting protection.
- Laser impedance modulation, temperature compensation, surge prevention.
- Imported silicon chips, suitable for different pressure measurement.

Parameters

Power Supply	12V DC~36V DC	Accuracy	0.1%F.S, 0.2%F.S
Measuring Range	Arbitrary range within 0-1MPa	Pressure Type	Gage pressure, Absolute pressure, Seal pressure
Output Signal	4-20mA, 1-5V, 0-10V, RS485 etc.	Compensation temperature	-10℃~+80℃
Medium Temperature	-20℃~+60℃	Overload pressure	200NF.S
Natural frequency	5KHZ~55KHZ	Shell Protection	IP65

● Technical Parameters

Technical Parameters	Electromagnetic flowmeter	Turbine flowmeter	Vortex flowmeter	Quantitative control system
Model	Electromagnetic flowmeter	Turbine flowmeter	Vortex flowmeter	Quantitative control system
Measuring Medium	Arbitrary conductive liquid	Gas, Liquid	Gas, Liquid, Steam	Arbitrary flowmeter
Output Signal	4-20mA, Pulse / frequency	4-20mA, Pulse / frequency	4-20mA, Pulse / frequency	/
Power Supply	220VAC/24VDC	24VDC/Lithium battery	24VDC/Lithium battery	220VAC
Installation	DN15-DN200	DN4-DN300	DN15-DN300	/
Accuracy	0.5%	0.5%	0.5%	1%
Normal Pressure	0.6-1.0MPa (Ultra high pressure can be customized)	0.6-1.0MPa (Ultra high pressure can be customized)	0.6-1.0MPa (Ultra high pressure can be customized)	/
Range Ratio	1:20 Customizable	1:20 Customizable	1:20 Customizable	/
Material	304 stainless steel, aluminum casting	304 stainless steel	304 stainless steel	304 stainless steel
Communication	RS485	RS485	RS485	/
Signal Interface	Hirschmann, three core cable	Hirschmann, three core cable	Hirschmann, three core cable	/
Response Time	<50MS	<50MS	<50MS	/
Working Temperature	-20℃~+60℃	-20℃~+60℃	-20℃~+60℃	-20℃~+60℃
Measuring Temperature	-20℃~+120℃	-20℃~+120℃	-20℃~+120℃	/
Protection Grade	IP65 or higher	IP65 or higher	IP65 or higher	IP65 or higher
Installation	Flanges / clamps / threads	Flanges / clamps / threads	Flanges / gripper	Flanges / gripper

● Smart Electromagnetic Flowmeter

Features

- High accuracy, high sensitivity measurement.
- Wide range of applications, compatible with various pipes.
- Small pressure loss, high reliability, leakage prevention.
- Wide range of measurement, complete function.
- Good vibration resistance, can be used for large fluctuation of liquid level.

Parameters

Power Supply	220VAC or 24VDC	Accuracy	0.5%
Measuring Range	Conductive medium	Electrode Type	316L electrode (Standard), Alloy electrode (strong acid and alkali)
Output Signal	4-20mA, Pulse	Working Temperature	-20℃~+60℃
Flow Direction	Positive, negative, net flow	Communication Method	RS485
Installation	Flange installation, Flange clamping, clamps	Shell Protection	IP65