



CAN
RS485

PROFI
BUS

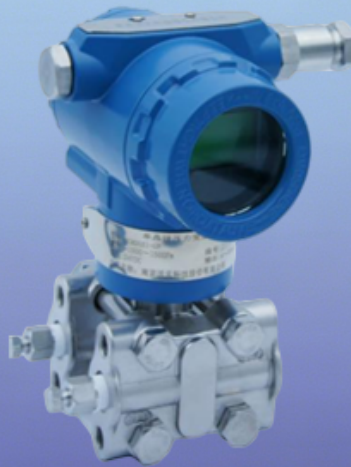
HART
COMMUNICATION PROTOCOL

4G

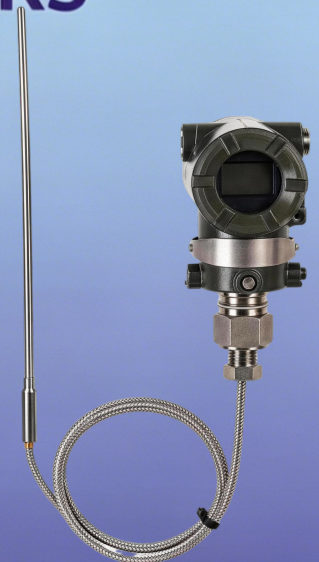
SMART TRANSMITTERS



EPT 60



EDPT 66



ETT 68

ELITE INSTRUMENTS CO.,LTD
ISO 9001 COMPANY

PRESSURE GAUGE | THERMOMETER | DIAPHRAGM SEAL | TRANSMITTER

www.amieliteinstruments.com



2014/34/EU

II 3GD

Ex ic IIC T4...T5 Gc°C

Ex ic IIIC T135°C...T100 Dc Ta: -30°C~+80°C



WETTED PARTS -AVAILABLE SS 316L , HASTELLOY-C276 , INCONEL 625 , MONEL 400

Wetted Parts SS 316L (AS PER NACE MR 0175)

**Sensors Available In Piezo Resistive/Ceramic/Micro Fused
Helium Leak Tested**

SS316 Enclosure

Fully Stainless Welded Design

Temperature Compensation: -20 (-4°F) to 100°C(212°F)

Operating Temperatures: -40°C(-40°F) to 120°C(248°F)

IP 68 Enclosure Protection

Proof Pressure Up to 3 x Full Scale value up to 6000psi

Burst Pressure Up to 5 x Full Scale value Up to 6000psi

Accuracy Available Up to 0.05%

Zero and Span Adjustment

Re Calibration available Upto 50% F.S value

Range Units Are Re – Programmable

Reverse Polarity Protection

Life Span More Than 4 Million Cycles

***PLEASE REFER TRANSMITTERS CATALOGUE FOR DETAILS**

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Features

- Advanced MEMS monocrystalline silicon pressure sensor chip adopted
- Wide pressure range covering
- Double-wire mode, 4~20mA HART® protocol digital communication option
- Intelligent LCD gauge outfit with backlight
- With local zero and pressure range adjustment
- Complete varieties, high accuracy, good stability
- Isolation ex-proof housing structure, strong resistance to the frequency conversion interference
- No mechanical transmission parts, strong anti-vibration



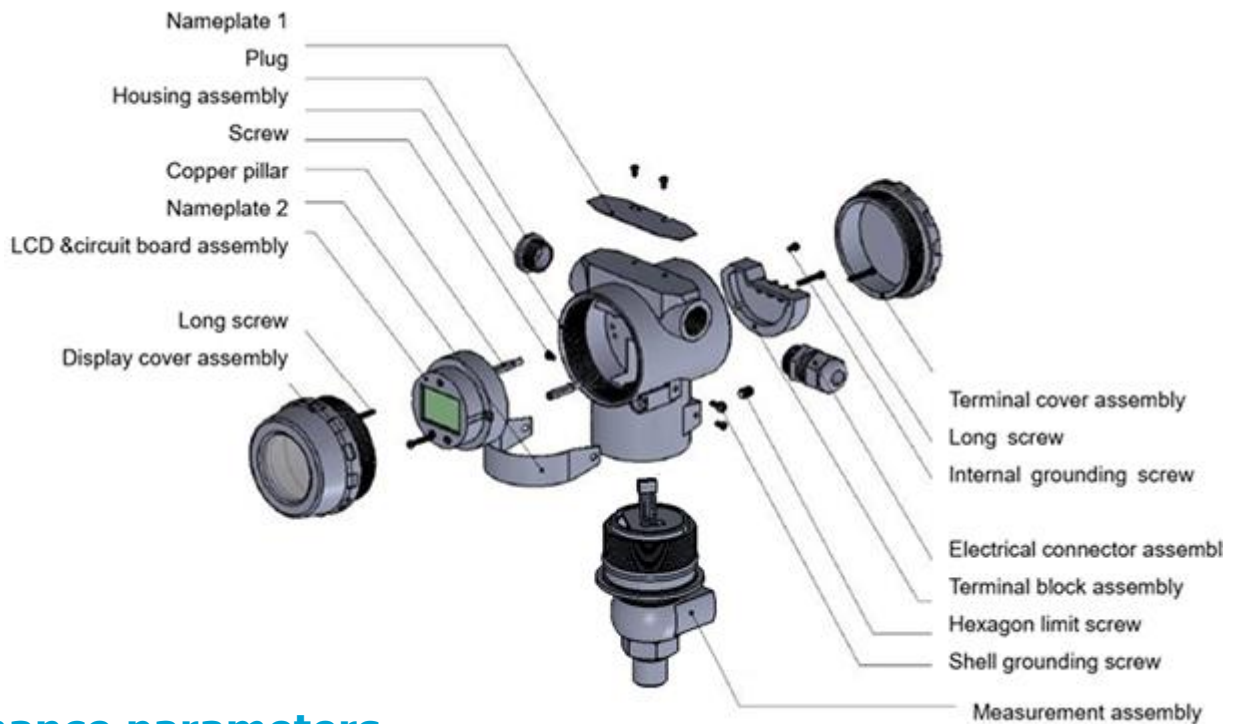
Applications and industries

- Process control fields for the industries such as petroleum, chemical industry, metallurgy, electricity, food, papermaking, medicine, machine manufacturing, scientific experiment and military aviation etc.

Product overview

EPT60 chip adopts advanced MEMS monocrystalline silicon pressure sensor chip. The sensor signal is converted into a standard signal output by a dedicated signal processing module. After long-term aging and stability screening, the product performance is stable and reliable. It is applied to the outdoor scene where the environment is harsh. At the same time, it can display on-site pressure, zero point and full range migration. The installation port form of EPT60 monocrystalline silicon pressure transmitter can be processed according to the requirements of users, and can also be compatible with other brands of transmitters. This series of products are widely used in industrial process control, petroleum, chemical, metallurgical and other industries

Appearance structure



Performance parameters

Pressure range	$\pm 6\text{kPa G}$, $\pm 40\text{kPa G}$, $\pm 100\text{kPa G}$, $-100 \sim 250\text{kPa G}$, $0 \sim 100\text{kPa A}$, $0 \sim 250\text{kPa A}$, $-0.1 \sim 1\text{MPa G}$, $-0.1 \sim 3\text{MPa G}$, $0 \sim 10\text{MPa S}$, $0 \sim 20\text{MPa S}$, $0 \sim 40\text{MPa S}$
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure
Supply	12V $\sim$ 32V, recommended 24V
Output	4 $\sim$ 20mA+HART protocol
Accuracy	$\pm 6\text{kPa}$: $\pm 0.1\%\text{FS}$; Other pressure ranges: $\pm 0.075\%\text{FS}$ (Standard pressure range, $25 \pm 5^\circ\text{C}$)
Temperature drift	$\pm 6\text{kPa}$: $\pm 0.3\%\text{FS}$; Other pressure ranges: $\pm 0.25\%\text{FS}$ (Standard pressure range, $-20 \sim 70^\circ\text{C}$)
Ambient temperature	$-30^\circ\text{C} \sim 80^\circ\text{C}$; with LCD gauge outfit: $-30^\circ\text{C} \sim 70^\circ\text{C}$
Medium temperature	$-40^\circ\text{C} \sim 120^\circ\text{C}$
Vibration resistance	20g (20 $\sim$ 5000Hz)
Shock resistance	100g (11ms)
Overpressure	Please see pressure range selection
Long-term stability	$\pm 0.1\%\text{FS}/\text{year}$
Protection grade	IP67
Ex-proof grade	Ex d IIC T6 Gb
Material	Housing cast aluminum alloy; isolation diaphragm 316L
Medium compatibility	All kinds of media compatible with SS316L
Response time	HART collects data from sensor: 0.1s; HART outputs data: 0.5s

ELITE reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

How to order information please contact: sales@elite-instruments.com

Features

- Adopting advanced monocrystalline silicon differential pressure sensors
- Wide range coverage $\pm 3\text{MPa}$
- Two-wire, 4~20mA analog output, Hart® Protocol digital communication
- Intelligent LCD meter head with backlight
- It has both remote transmission and local zero and range adjustment
- Complete variety, high precision, and good stability
- Explosion-proof shell structure with strong resistance to frequency conversion interference
- High static pressure and high overload protection
- Patented dual overload protection diaphragm design
- Lightning protection circuit design



Applications and industries

- Process control fields in industries, such as petroleum, chemical, metallurgy, electricity, food, papermaking, pharmaceuticals, machinery manufacturing, scientific experiments, and aviation & military applications

Product overview

The EDPT66-DP intelligent differential pressure transmitter is an internationally leading high-performance pressure transmitter carefully developed using the world's advanced monocrystalline silicon pressure sensor technology and patented packaging process. This product adopts a patented dual overload protection diaphragm and an internal circuit with surge protection, which can accurately measure the gauge pressure, absolute pressure, flow rate, vacuum degree, liquid level, and density.

Performance parameters

Pressure range	±1kPa; ±6kPa; ±40kPa; ±100kPa; ±250kPa; ±1MPa; ±3MPa
Pressure reference	Differential pressure
Power supply	12VDC~32VDC, recommend 24VDC
Output signal	4~20mA + Hart® protocol
Accuracy	±1kPa: ±0.2%FS; ±6kPa: ±0.1%FS; other ranges: ±0.075%FS (Standard range, 25±5℃)
Temperature drift	±0.5%FS (±1kPa); ±0.3%FS (±6kPa); ±0.25%FS (other ranges) (Standard range, -20℃~70℃)
Ambient temp.	-30℃~80℃; With LCD meter head -30℃~70℃
Medium temp.	-40℃~125℃
Protection	IP67
Explosion proof level	Exd IIC T6 Gb
Static pressure range	±1kPa; ±6kPa; ±40kPa Static pressure resistance 16MPa; ±100kPa; -100~250kPa Static pressure resistance 25MPa; -0.1~1MPa; -0.1~3MPa Static pressure resistance 40MPa
Over pressure limit	16MPa
Long-term stability	±0.1%FS/year (Standard range)

Structural performance parameters

Diaphragm material	316L, Hastelloy C
Relief valve	304
O-ring	Silicone rubber (Contact with the measured medium)
Sealing liquid	Silicone oil
Splint	304
Housing material	Shell die cast aluminum alloy, painted with epoxy resin coating
Electrical connector	M20×1.5, NPT1/2
Process connection	M20×1.5 with welded pipe, NPT1/4(F), NPT1/2, NPT1/2(F), G1/2 with welded pipe, G1/4, three-valve manifold M20×1.5 with welded pipe (304/316), three-valve manifold NPT1/4F (304/316 optional).
Weight	3.5kg (except accessories)

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Features

- Accurate temperature measurement
- Integrated structure
- Fast response
- Long-term stable work
- Convenient on-site connection
- Simple operation

Applications and industries

- Equipment supporting
- Process control fields in industries, such as petroleum, chemical, metallurgy, electricity, food, papermaking, pharmaceuticals, machinery manufacturing, scientific experiments, and aviation & military applications
- Temperature measurement for water or oil in the fields of petroleum, chemical industry, electric power, light textile, environmental protection, etc.

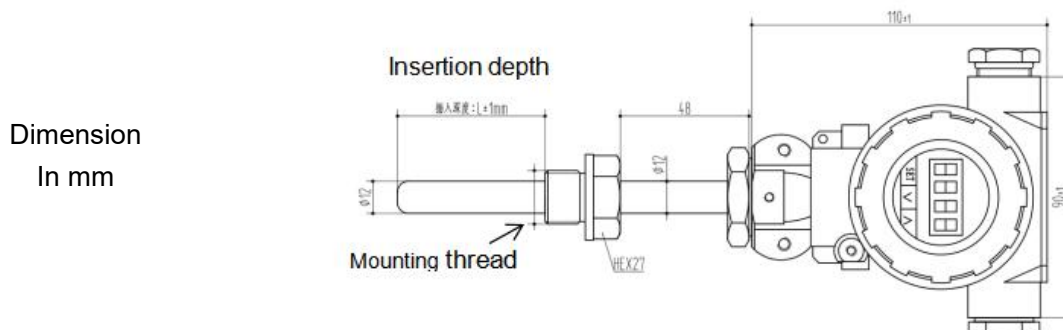


Product overview

ETT68 Explosion-proof Temperature Transmitter measures the temperature of the measured medium by using the feature that the platinum resistance value varies with temperature and shows a certain functional relationship. This product adopts the high-precision thermoelectric couple and thermal resistance as the detecting elements, uses the high stability circuit for the signal processing, realizes the continuous measurement for the temperature, outputs the industrial control standard signal, and can realize the functions such as display, remote transmission etc. simultaneously

The temperature measurement part of the product adopts all stainless steel integration processing technology, and the connecting box adopts explosion-proof housing; the product has the features of strong shock resistance, quick thermal response etc.; the wire adopts the special shielded cable, with wide usage temperature range; this product is easy to install, and applicable to be used in all kinds of automatic control systems for temperature measurement

Appearance structure



Performance parameters

Pressure range	-50℃～250℃			
Supply & output	4～20mA (16～36VDC), 4～20mA@HART protocol (16～36VDC)			
Accuracy	±0.5%FS			
Sensitive element	Pt100 Grade A			
Insulation strength	100MΩ/250VDC			
Response time	Water 0.2m/s		Air 1m/s	
Placement diameter:	t0.5	t0.9	t0.5	t0.9
Φ12mm	10S	35S	95S	310S
Long-term stability	≤0.2%FS/year			
Placement diameter	Φ12mm			
Ambient temperature	-20℃～85℃			
Electrical connection	Aluminum housing			
Protection grade	IP65			
Maximum mounting torque	25Nm			
Ex-proof grade	Exd IIC T6 Gb			
Probe material	304			

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ABOUT US:

Elite instruments company having 20,500 square meter manufacturing area with 350 employees.

Elite instruments have daily production capacity of 20,000 instruments Per day.

Elite instruments total invested over 12 million into our equipment and buildings.

Elite Instruments is an ISO 9000:2015 certified manufacturing company for Measuring instruments and its accessories.

We manufacture

- Pressure gauges,
- Ultra-high-pressure gauges,
- Temperature gauges
- Diaphragm seals
- Accessories
- Thermowells
- Valves and Manifolds.
- Pressure, temperature and level transmitters

Headquartered at China, Elite Instruments also have manufacturing locations at

- China
- Saudi Arabia
- Mexico
- India to better serve our customers.

We also have Distributors at

- TURKEY
- NETHERLANDS
- United States of America,
- CANADA
- MEXICO
- BRAZIL.

Elite instruments Established in 2010, we deliver over 8 million quality products per year 75 countries every year.

Currently Worldwide, estimated 6 million ELITE measuring instruments are in use. Elite serves a wide variety of industries worldwide, including:

- Oil and Gas
- Chemical and Petrochemical
- Food and Pharmaceutical
- Water and Wastewater
- Engineering and Process

Elite Instruments' customer service is fast and flexible. We always put our CUSTOMER FIRST.

Let us prove that we are the best choice for your manufacturer of measuring instruments.

Elite also specializes in developing custom-built OEM products as per customer exact requirements.

Our proficient team of engineers will work to bring your custom design products to life, or work with you to create new products designed to meet your exact needs.

Our customers have testified that the Quality, workmanship, appearance and packaging of Elite products are second to none.

Please visit our website www.elite-instruments.com or send your enquiry to sales@elite-instruments.com



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