

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



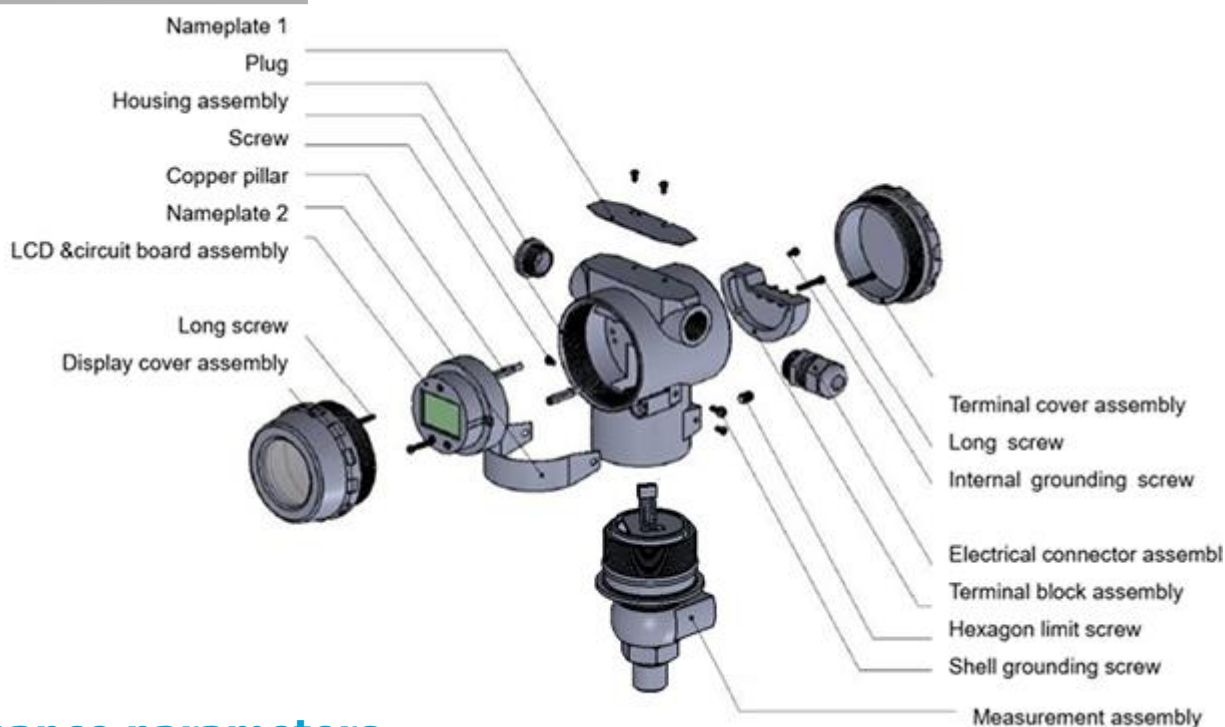
Applications and industries

- 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

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