

## CHANGSHA TAIHE ELECTRONIC EQUIPMENT CO.,LTD.

Pressure Sensor | Temperature Sensor | Liquid Level Sensor | Load Cell | Smart Instruments

Position sensor | Torque | Internet of Things



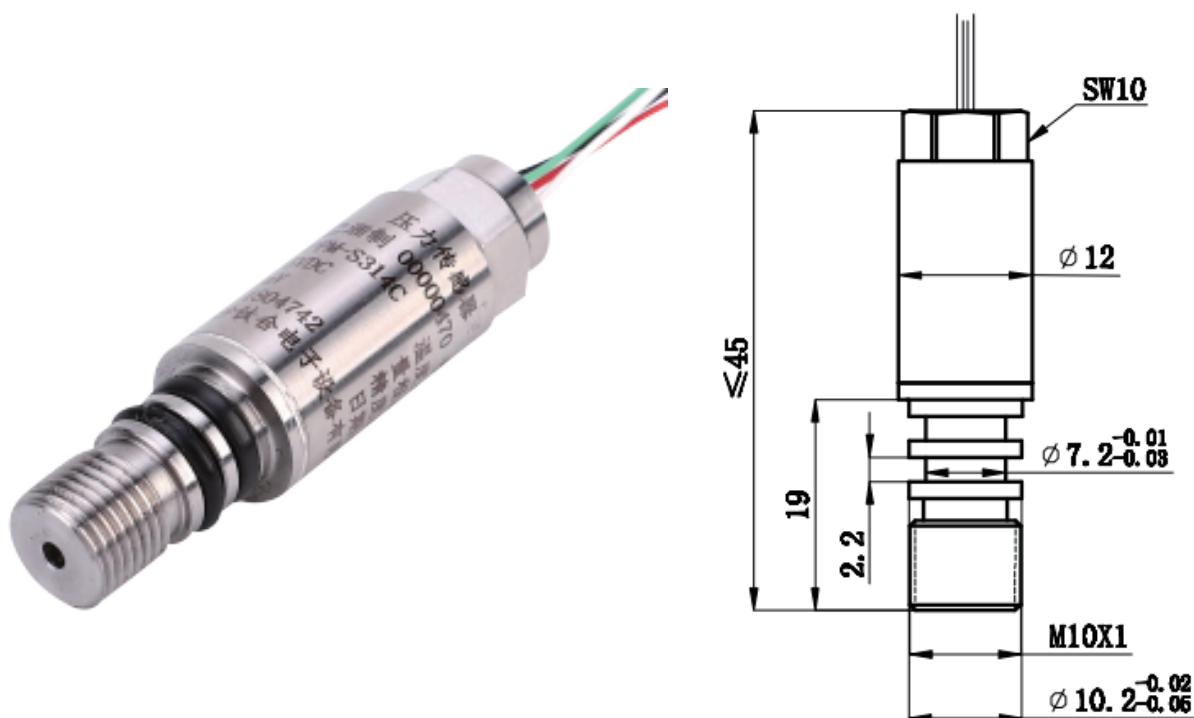
# 16

Years of experience in sensor R&D,  
manufacturing and production

Provide one-stop customization services  
for various sensors

## PPM-S312A

### Oil Well High Temperature Pressure Sensor



#### Product Introduction

The PPM-S312A oil well high temperature pressure sensor sensitive chip is made using ion sputtering thin film technology. The product adopts stainless steel structure and laser welding to seal the pressure. It has the characteristics of small dimensions, high accuracy, stable and reliable performance, high and low temperature resistance, and long pressure fatigue life. Special shapes can be customized.

#### Applications

Oil drilling, logging, well testing, downhole instruments, digital pressure gauges, multi-parameter inclinometers, military large equipment, etc.

## Technical Parameters

Measured Medium	Gas, liquid and steam (non-corrosive fluid to 316L stainless steel)
Pressure Type	Gauge pressure or custom made
Pressure Range	0~1bar, 6bar, 10bar, 0~6bar...60bar
Power Supply	9~32VDC
Built-in Amplifier Output	4~20mA, 0~10VDC, 0~5VDC, 1~5VDC, 0.5~4.5 VDC
Accuracy	0.5% FS, 1% FS
Long-term Stability	0.25% FS / year
Working Medium Temperature	-40°C~+85°C
Working environment Temperature	-40°C~+75°C
Zero Temperature Drift	≤0.03% FS / °C
Sensitivity Temperature Drift	≤0.03% FS / °C
Response Time	≤1ms (10% ~ 90%) typical value
Insulation Resistance	≥1000 MΩ / 100V
Safe Overload Pressure	150% FS (1.5 times full scale)
Breaking Pressure	500% FS (5 times full scale)
Connection Method	M20×1.5 external thread, G1/4 external thread, G1/2 external thread
Enclosure Protection Class	IP54
Electrical Output Lead	M12×1 connector, DIN43650 connector (Hirschmann connector)

## Definition of Wiring

Direct outgoing		
		Cable color
	Power supply	red
	Negative power	black
	Signal positive	green
	Signal negative	white

## CONTACT US

[www.csppmSensor.com](http://www.csppmSensor.com)

**Address:** No. 188, Huanbao Road, Yuhua Zone, Changsha, Hunan, China

**E-mail:** [info@csppm.com](mailto:info@csppm.com)

**Mobile | Wechat | WhatsApp:** +86 19118913383