

# HC-25 Micro Pore Water Pressure Sensor and Transmitter

## Product introduction

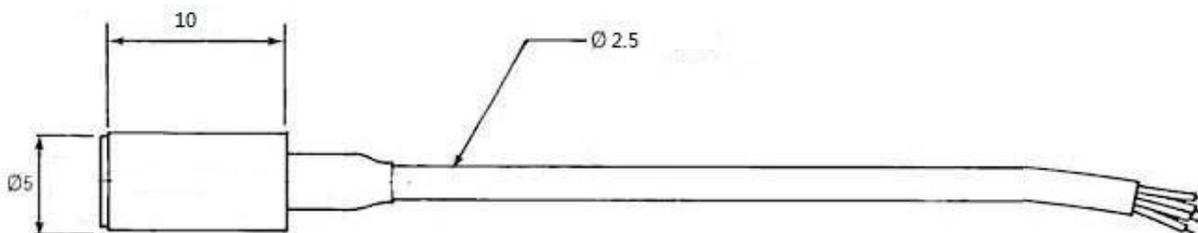
In order to measure the flow field and location requirements, it is necessary to measure the pressure in situ and Without disturbing the flow field state, the variation of the pulsating flow field is repeated, and often the requirements for miniaturization of the sensor's external dimensions are more stringent. HC-25 micro pore water pressure sensors and transmitters are just for the above conditions. Requirement to design, the series of ceramic filter products, stainless steel structure, the use of micro-machined silicon diaphragm as the core component, high-precision integration, the use of international advanced miniaturization of the production and packaging process, carried out ingenious micro-package, product volume, Compact structure, light weight, strong durability, and excellent dynamic and static characteristics, this series of products are particularly suitable for civil simulation, centrifuge simulation, etc., widely used in civil engineering, rock and soil mechanics, earthquake monitoring.



## Features

- ◇ Wide measurement range, ranging from -100KPa to 100MPa
- ◇ High precision, up to 0.1%FS
- ◇ Miniature pressure sensor, small size, minimum diameter
- ◇ Wide temperature range, from low temperature -40°C to high temperature
- ◇ 2.54mm, length 3.77mm 120°C (Special to +175°C)
- ◇ Good long-term stability, resistant to various harsh environments
- ◇ Customized according to customer requirements

Dimensions (mm)



## Performance parameters

Measuring range: -100KPa~10KPa~35KPa~100KPa~300KPa~700KPa~3.5MPa~100MPa

Overload capability: 2 times full scale pressure  
Pressure type: Absolute pressure, gauge pressure, differential pressure  
Measurement media: Gas or liquid compatible with 316 stainless steel  
Comprehensive accuracy:  $\pm 0.1\%FS$ ,  $\pm 0.2\%FS$ ,  $\pm 0.3\%FS$   
Natural frequency : 20 KHz to 2 MHz  
Long-term stability: Typical:  $\pm 0.1\% FS/year$ , Maximum:  $\pm 0.2\% FS/year$   
Working temperature: Generally  $-20^{\circ}C \sim 85^{\circ}C$ , Specially  $-40^{\circ}C \sim 175^{\circ}C$   
Zero temperature drift: Typical:  $\pm 0.02\% FS/^{\circ}C$ , Maximum:  $\pm 0.05\% FS/^{\circ}C$   
Sensitivity temperature drift: Typical:  $\pm 0.02\% FS/^{\circ}C$ , Maximum:  $\pm 0.05\% FS/^{\circ}C$   
Power Supply Range : 9~36VDC (General 24VDC)  
Signal output: 0~5VDC, 1~5VDC, 4-20Ma, 0~100mV  
Insulation resistance :  $\geq 1000M\Omega$  (at 100VDC)  
Resolution: infinitely small (theory), 1/100000 (usually)  
Interface and Housing: Stainless Steel 1Cr18Ni9Ti

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