



Sensors for Physics



S01 Force Sensor A

Range: $-20\text{N} \sim +20\text{N}$; Scale Division: 0.01N ; Used for measuring tension (positive value display) and pressure (negative value display), handle structure, It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S02 Force Sensor B

Range: $-50\text{N} \sim +50\text{N}$; Scale Division: 0.1N ; Used for measuring tension (positive value display) and pressure (negative value display), handle structure, It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S03 Force Sensor C

Range: $-20\text{N} \sim +20\text{N}$; Scale Division: 0.01N ; Used for measuring tension (positive value display) and pressure (negative value display), Straight shank type structure, It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S04 Micro Force Sensor

Range: $-2\text{N} \sim +2\text{N}$; Scale Division: 0.001N ; Used for measuring tension (positive value display) and pressure (negative value display), handle structure, It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!



S05 Force/Angle Sensor

Range: $-20\text{N} \sim +20\text{N} / -180^\circ \sim +180^\circ$; Scale Division: $0.01\text{N} / 0.1^\circ$; Straight shank type structure, It can measure the force and angle at the same time. Used for measuring tension (positive value display) and pressure (negative value display), measuring clockwise rotation angle (positive value), counterclockwise rotation angle (negative value display) It should be used with Smart Force Disc. It supports wired/wireless communication.



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S06 Displacement Sensor (Separate)

Composed of transmitter and receiver. Transmitter is powered by rechargeable li-ion battery, easy to combine with current experimental devices (motional trolley, spring oscillator, etc.); Receiver is connected with Data Logger, Range: 0cm~200cm, Scale Division: 1mm. No immeasurable distance.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S07 Displacement Sensor (Integrated)

Range: 0.15m~6m, Scale Division: 1mm.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S08 Displacement Sensor (Small-Range)

Range: 0 mm~50mm, Scale Division: 0.1mm.

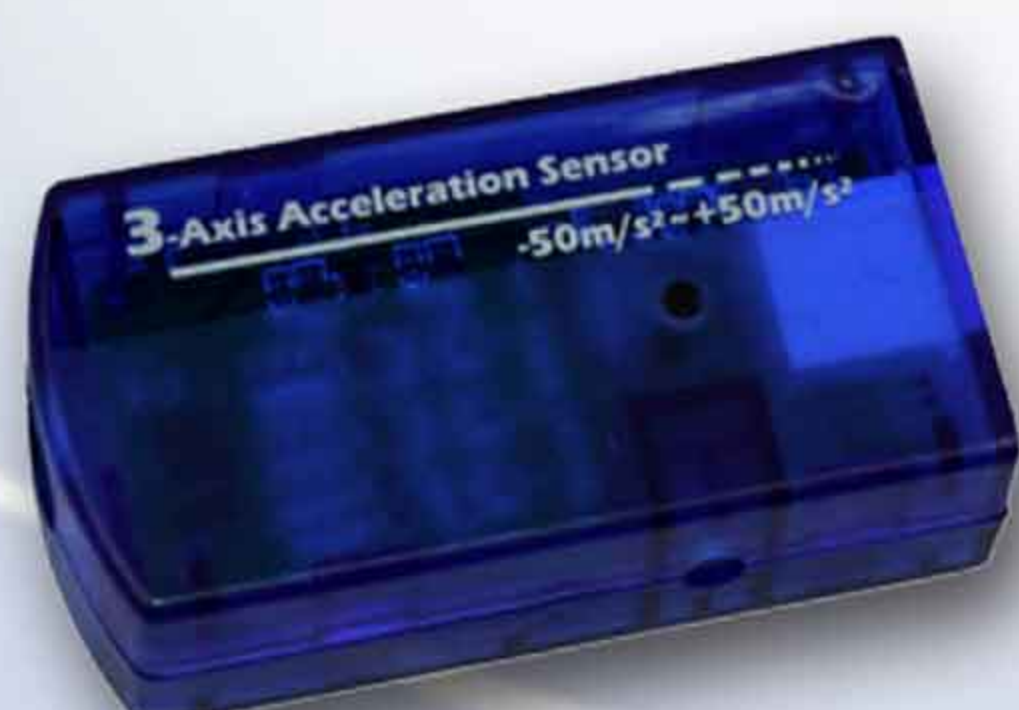
It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S09 Photo Gate Sensor

Scale Division: 2μs; Used for measuring baffle time of light barrier (Type U, Type I).

It supports wired/wireless communication with Data Logger.



S10 Acceleration Sensor

Range: -50m/s²~+50m/s², 3D.

It supports wired/wireless communication with Data Logger.

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S11 Rotary Motion Sensor

30 rps, Scale Division 0.2°, It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S12 Temperature Sensor A

Range: -20°C~+130°C; Scale Division: 0.1°C; stainless steel probe, it can measure the temperature of a variety of objects and solutions.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S13 Temperature Sensor B

Range: -50°C~+200°C; Scale Division: 0.1°C; with stainless steel probe, it can measure the temperature of a variety of objects and solutions.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S14 Fast Response Temperature Sensor

Range: -20°C~+130°C; Scale Division: 0.1°C; Fast response to the change of temperature.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S15 High-Temperature Sensor

Range: 0°C~1200°C; Scale Division: 1°C; with stainless steel probe, it can measure the temperature of high-temperature objects or flame. It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

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S16 IRT Sensor

Range: -20°C~+200°C; Scale Division: 0.1°C.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



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S17 Pressure Sensor A

Range: 0 kPa ~300 kPa;Scale Division: 0.1 kPa; It can be used for measuring the absolute pressure of gas directly.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

Accessories: 20ml injector



S18 Pressure Sensor B

Range: 0 kPa ~700 kPa;Scale Division: 0.1 kPa; It can be used for measuring the absolute pressure of gas directly

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

Accessories: 20ml injector



S19 Relative Pressure Sensor

Range: -20kPa~+20kPa;Scale Division: 0.01 kPa; It can be used for measuring the absolute pressure of gas directly.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S20 Sound Sensor

Capable of measuring the wave form of sound, study frequency, period, swing and other characteristics of sound; Frequency range: 20Hz~20kHz.

It supports wired/wireless communication with Data Logger.



S21 Sound Level Sensor

Range: 20 dB ~120dB,Scale Division: 0.1dB.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S22 Illumination Sensor

Range: 0lx~10000lx,Scale Division: 2lx.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S23 Dual-Range Illumination Sensor

Range: 0lx~5000lx~50000lx,Scale Division: 1lx, 10 lx.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

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S24 Relative Illumination Distribution Sensor

Used for measuring the distribution of relative illumination in the plane, with measuring range of 60 mm, Scale Division: 12 point/ mm.

It supports wired/wireless communication with Data Logger.



S25 Current Sensor A

Range: $-2A \sim +2A$; Scale Division: 0.01A.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S26 Current Sensor B

Range: $-200mA \sim +200mA$; Scale Division: 0.1mA.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S27 Current Sensor (Multi-Range)

Range: $-2A \sim +2A$; Scale Division: 0.01A

Range: $-200mA \sim +200mA$; Scale Division: 1mA

Range: $-20mA \sim +20mA$; Scale Division: 0.1 mA.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S28 Micro Current Sensor

Range: $-1\mu A \sim +1\mu A$; Scale Division: 0.01 μA .

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

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S29 Voltage Sensor A

Range: $-20V \sim +20V$; Scale Division: $0.01V$.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S30 Voltage Sensor B

Range: $-200mV \sim +200mV$; Scale Division: $0.1mV$.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S31 Voltage Sensor C

Range: $-600mV \sim +600mV$; Scale Division: $0.1mV$.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S32 Voltage Sensor (Multi-Range)

Range: $-20V \sim +20V$; Scale Division: $0.01V$

Range: $-2V \sim +2V$; Scale Division: $0.001V$

Range: $-0.2V \sim +0.2V$; Scale Division: $0.1mV$.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.

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S33 Magnetic Induction Sensor A

Range: $-15mT \sim +15mT$; Scale Division: $0.01mT$.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



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S34 Magnetic Induction Sensor B

Range:-100mT~+100mT; Scale Division: 0.1 mT.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S35 E-Compass Sensor

Range: 0°~359°; Scale Division: 1°.

It supports wired/wireless communication with Data Logger and is compatible with independent Data Display Module.



S36 G-M Sensor

Range:0c.p.m~4000c.p.m; Used for measuring shift pulses of β and γ particles

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Measure oxygen content in woods with oxygen sensor and data display module