



2012 Edition

Pressure Transducer Inertial Navigation Sensor Catalog



XI'AN CHINASTAR M&C LIMITED

Pressure Transducer

Xi'an Chinastar M&C LTD was established in 1996 with 55 million RMB registration investment. The company specializes in sensor and IOTS research, production and sales. The main products includes pressure sensor and transmitter, inertial sensor, environmental sensors, and solution and consultation services on sensors.

Innovation is the basic element of the company. The self developed products has received 61 national patents, in which 6 patents are invention ones.

The company has been certified with ISO9001 quality system, CMC, TUV CE, Intrinsically safe certificate, Rohs certificate, and CDNV7 ATEX, and mining security certificate.

Chinastar products win favorable comments from customers due to advanced technology, excellent quality, fast delivery, and in time services. The products are used in industrial and military fields and exported to 52 countries including USA, Germany, Russia, Italy, South Korea, Brazil, India,etc. Export value is 30% of the sales volume in recent years.

Chinastar has the following titles,

A member of Sensor Division of China Electronic Components Society

A member of Shaanxi IOTS Alliance

Shaanxi Hi-Tech Company

Shaanxi Intellectual Property Advanced Company

Shaanxi, Xi'an Famous Brand

Chinastar will hold the successful concept,technology being the base, market being the direction, customer satisfaction being the target, to explore the global market. In 2012, the production capacity will reach 1 million units of various sensors. We will work toward to meet the customers' requirement and be an innovative and influential company in the sensor industry.



Pressure Transducer



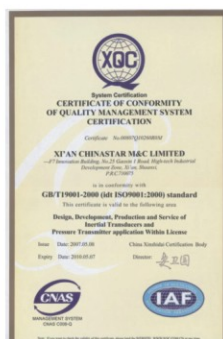
Utility Model and Appearance Patent



Invention Patents



CE



ISO9001



RoHS



Explosion Proof

Pressure Transducer



CS-PT100 Economical Pressure Transducer

Range: 200kPa-35MPa

Output: 4-20mA, 0-5V

Accuracy: 0.5% F.S

Current: 24Vdc, Non-polarity wire

Voltage: 24Vdc/ac(dc/ac means dc and ac both usable)

Elec. Connect: Hurischman Plug

Port: M20X1.5, G1/2, NPT1/2

Others: overvoltage and overload protection, IP65 Protection, overload 250%

Applications: Gas, liquid, water supply, addwet machine, hydraulic system

Compliant: CMC, CE



CS-PT200 Pressure Transducer

Range: 0.2MPa-35MPa

Output: 4-20mA, 0-5V

Accuracy: 0.5% F.S

Current: 24Vdc

Voltage: 24Vdc/ac(dc/ac means dc and ac both usable)

Display: LCD's back light

Port: M20X1.5, G1/2, NPT1/2

Temperature: up to 150°C with cooling ring

Note: CE, EX



CS-PT210A/B Pressure Transducer

Range: 0-25MPa

Output: RS485(CS-Pt210B) simultaneous output: 4-20mA

Accuracy: 0.25% F.S

Power: 12-30V

Port: M20X1.5

Temperature: -40 - 85°C



CS-PT211I Proof Digital Pressure Transducer

Range: 0-20Kpa.....60MPa

Output: RS485

Accuracy: 0.25%F.S

Power: 12VDC

Port: M20X1.5

Temperature: -25 - 85°C

Display: 4-bit display

ExdIIBT5

Pressure Transducer



CS-PT220A Smart Hart Pressure Transducer

Range: 0-20Kpa.....60MPa
Output: 4-20mA and Hart
Accuracy: 0.25%F.S
Power: 12-30VDC
Port: M20X1.5, G1/2, NPT1/2



CS-PT300 Pressure Transducer

Range: -0.1MPa-0MPa, 0-0.03MPa, 0-100MPa
Output: 4-20mA, 0-5V, 0.5-4.5VDC
Accuracy: 0.5% F.S, 0.25%F.S
Current: 24Vdc, Non-polarity wire
Voltage: 24Vdc/ac(dc/ac means dc and ac both usable)
Elec. Connect: Hurischman Plug
Port: M20X1.5, G1/2, NPT1/2
Others: overvoltage and overload protection, IP65/67 Protection, overload 250%
Note: CE



CS-PT330 High Accuracy Pressure Transducer

Range: 0-10KPa
Working temperature: -20-80°C
Compensated temperature: -20-80°C
Accuracy: 0.5%F.S
Output: 4-20mA
Power: 15VDC
IP67



CS-PT400 Level Transducer

Range: 0-2m....10m
Output: 4-20mA, 0-5V
Accuracy: 0.25%F.S, 0.5%F.S
Current: 12-30VDC, non-polarity
Voltage: 24Vdc/ac(dc/ac means dc and ac both usable)
Structure: Throw in, screw installation
Protection: IP68
Others: five level sealing design, high reliability, non-polarity wire, overvoltage and overload protection, optional cable resistant to strength and corrosion.
Applications: water supply, level of river and lake
Compliant: CMC,CE



CS-PT400M Segregate Level Transducer

Range: 2-200m

Technical parameter same as PT400, separate the sensor with the transmitting circuit



CS-PT420 Geothermal Water Level Transducer

Range: 10-300m

Technical parameter same as PT400

Especially designed for geothermal water level 80°C-100°C working stably

Note: CM Patent No.2L200620078309.3



CS-PT440/450 Corrosive Proof Level Transducer

Range: 0.5-10m

Technical parameter same as PT400, especially designed for detecting liquid level resistant to acid & alkaline, Ceramic capacitive sensor, shell made of Teflon.

Note: CM Patent No.2L200620078309.3



CS-PT460 Titanium Alloy Level Transducer

Range: 5-500m

Technical parameter same as PT400, especially designed for sea level, titanium alloy shell and special cable ensure it can work under sea water stably.



CS-PT480 Digital Level Transducer

Range: 0-2.....200water

Working temperature: -40 - 85°C

Accuracy: 0.5%F.S

Output: RS485

Power: 10-30VDC

Protection: IP68

Structure: Throw in, screw installation



CS-WPT400 Level Transducer Embeedded Temperature

Range: 0-3....200water

Working Temperature: -40 - 85°C

Accuracy: 0.5%F.S

Output: 4-20mA, 1-5VDC, 0.5-4.5VDC

Protection: IP68

Others: five level sealing design, high reliability, non-polarity wire, overvoltage and overload protection, optional cable resistant to strength and corrosion.

Pressure Transducer



CS-WPT410 Digital Level Transducer Embedded Temperature

Range: 0-2....200water

Working Temperature: -40-85°C

Accuracy: 0.5%F.S

Output: RS485

Power: 10-30VDC

Protection: IP68

Others: five level sealing design, high reliability, non-polarity wire, overvoltage and overload protection, optional cable resistant to strength and corrosion.



CS-PT500 Differential Pressure Transducer

Range: 0-5KPa.....5000KPa

Overload: 1.5 times

Static pressure: three/ five/ten times , 20MPa

Accuracy: 0.25%F.S ,0.5%F.S

Working temperature: -40-85°C

Output: 4-20mA, 0/1-5V, 0-10V

Power: 10-30VDC, 8-36VDC/AC, 11-30VDC/AC

Port: M20X1.5 ,G1/2, G1/4



CS-PT500D Differential Pressure Transducer

Range: 0-5KPa.....10000KPa

Overload: 1.5 times

Static pressure: three/ five/ten times

Accuracy: 0.25%F.S,0.5%F.S

Working temperature: -40-85°C

Output: 4-20mA, 0-5V, 0-10V

Power: 10-30VDC, 8-30VDC/AC, 11-30VDC/AC

Port: M20X1.5,G1/2, G1/4



CS-PT600A Square Smart Pressure Transducer

Range: 0-2MPa.....60MPa

Overload: 1.5times

Burst pressure: 3times

Accuracy: 0.5%F.S

Working temperature: -20-60°C

Output: 5-bit relay, RS485

Power: 10-30VDC

Port: M20X1.5, G1/2,G1/4

Pressure Transducer



CS-PT602 Series Digital Pressure Transducer

Range: 0- 20bar....600bar

Output: RS485

Power: 10-30VDC,3.6VDC(battery)

Accuracy: 0.5%F.S ,1%F.S

Temperature: -10- 60 °C

Pressure port: M12 X1.5, R1/2,G1/4,G1/2,NPT1/2, etc



CS-PT605 Series Pressure Data Logger

Range: 0- 20bar....1000bar

Output: RS485 ,USB

Power: 9VDC / 3.6VDC(Li battery)

Accuracy: 0.5%F.S

Temperature: -10- 60 °C

Pressure port: M12 X1.5, R1/2 ,G1/4,G1/2,NPT1/2, etc



CS-PT606 Series High Precision Digital Pressure Transducer

Range: 0- 20bar....1000bar

Output: RS485 (digital output) / 0-5V (analog output)

Power: 10-30VDC

Accuracy: 0.25%F.S, 0.1%F.S

Temperature: -40- 80 °C

Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc



CS-PT607 CAN Pressure Transducer

Range: 0- 1bar....600bar

Output: CANopen Protocol (CAN2.0A and CAN2.0B)

Communication speed: 1Mbps

Maximum distance: 10Km

Power: 10-30VDC

Accuracy: 0.25%F.S,0.1%F.S

Temperature: -40- 85 °C

Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc



CS-PT700 Absolute Pressure Transducer

Range: 0- 0.1bar....400bar

Output: 4 - 20mA ,0 - 5V ,0 - 10V

Power: 10-30VDC, 6-24VDC, 10-36VDC , 11-30VDC

Accuracy: 0.25%F.S,0.5%F.S

Temperature: -40- 80 °C

Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc

Pressure Transducer



CS-PT800 High Temperature Pressure Transducer

Range: 0- 1bar....2000bar

Output: 4 - 20mA, 0 - 10mA, 0 - 20mA, 0 - 5V , 0 - 10V

Power: 12-30VDC

Accuracy: 0.1%F.S , 0.25%F.S, 0.5%F.S

Temperature: -40- 80 °C

Pressure port: M12 X1.5, R1/2, G1/4, G1/2, NPT1/2, etc



CS-PT830 Pressure Transducer For Heavy Machinery

Range: 0- 50bar....800bar

Burst pressure: 10 times of range

Output: 4 - 20mA, 1 - 5V, 0.5 - 4.5V

Power: 10-30VDC, 8-30VDC, 5VDC

Accuracy: 0.5%F.S

Temperature: -40- 150 °C

Pressure port: M12 X1.5, R1/2, G1/4, G1/2, NPT1/2, etc



CS-PT1000 Series Economical Pressure Transducer

Range: 0- 5bar....600bar

Output: 4 - 20mA , 0 - 5V , 1 - 5V , 0.5 - 4.5V , 0 - 10V

Power: 10-30VDC , 8 -30VDC , 5V, 12-30VDC

Accuracy: 0.5%F.S

Temperature: -40- 85 °C

Pressure port: M12 X1.5, R1/2, G1/4, G1/2, NPT1/2, etc



CS-PT1010 Series Pressure Transducer

Range: 0- 5bar....600bar

Output: 4 - 20mA, 0 - 5V, 0 - 10V

Power: 10-30VDC, 8 -30VDC, 12-30VDC

Accuracy: 0.5%F.S

Temperature: -40- 125 °C

Pressure port: M12 X1.5, R1/2, G1/4, G1/2, NPT1/2, etc



CS-PT1100 Series Pressure Transducer For Air Compressors

Range: 0- 5bar....50bar

Output: 4 - 20mA, 0.5 - 4.5V

Power: 10-30VDC, 5VDC

Accuracy: 0.5%F.S , 1%F.S, 2%F.S

Temperature: -40- 85 °C

Pressure port: R1/2, G1/4, NPT1/2, 7/16-20UNF, etc

Pressure Transducer



CS-PT1200 Series Pressure Transducers For HVAC Field

Range: 0- 2bar....600bar
Output: 4 - 20mA ,0.5 - 4.5V
Power: 10-30VDC, 5V
Accuracy: 0.25%F.S,0.5%F.S,1%F.S
Temperature: -40- 100 °C
Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc



CS-PT1270 Series High Precision Pressure Transducer With Temperature Compensation

Range: 0- 2bar....60bar
Output: 4 - 20mA ,0.5 - 4.5V,1 - 5V
Power: 10-30VDC ,8- 30V
Accuracy: 0.5%F.S
Temperature: -40- 125 °C
Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc



CS-PT1300 Series Pressure Transducer For Auto Application

Range: 0- 2bar....600bar
Output: 0 - 5V, 0.5 - 4.5V,1 - 3V
Power: 10-24VDC,8- 30V, 5VDC
Accuracy: 1 %F.S, 2%F.S
Temperature: -40- 125 °C
Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, etc



CS-PT2000 Series Pressure Transducer For Mining Equipment

Range: 0- 2bar....200bar
Output:4 - 20mA, 0 - 5V,0 - 10V
Power: 10-30VDC,12 - 30 VDC
Accuracy: 0.1 %F.S,0.5%F.S
Temperature: -40- 85 °C
Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, KJ10, etc



CS-MARS Series pressure Transducer For Aviation And Express Train

Range: 0- 2bar....200bar
Output:4 - 20mA,1 - 5V , 0.5 - 4.5V
Power: 10-30VDC ,8 - 30 VDC,5V
Accuracy: 0.1 %F.S
Temperature: -40- 85 °C
Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, KJ10, etc

Pressure Transducer



CS-PSW/PT622 Series Adjustable Pressure Switch

Range: 0- 1bar....600bar

Output: Relay output

Load: 0.5A,125VDC,1A 30VDC

Power: 24 VDC

Accuracy: 2%F.S,1 %F.S,0.5%F.S

Temperature: -40- 60 °C

Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, KJ10, etc



CS-IPT608/PT350 Series Low Power Consumption Wireless Pressure Transducer

Range: 0- 2bar....600bar

Communication protocol: Zigbee

Power: 3.6 VDC Battery

Accuracy: 0.5%F.S

Temperature: -40- 60 °C

Pressure port: M12 X1.5,R1/2, G1/4,G1/2,NPT1/2, KJ10, etc



CS-ISN-01 Series Zigbee Coordinator

Input:4-20mA,RS485,Modbus, IEEE802.15.4, Zigbee

Power: 10-30VDC ,12 - 30 VDC

Accuracy: 0.1 %F.S

Temperature: -40- 60 °C



CS-ISN-02/03 Series GSM/GPRS Coordinator

Input:4-20mA

Communication port: RS485

Speed: 300bps-115200bps

Operating frequency: 850/900/1800/1900MHz

Communication Protocol: DDP protocol

Antenna: SMA external type

Power: 10-30VDC

Accuracy: 0.1 %F.S

Temperature: -40- 60 °C



Accessories

Transducer indicator

5-bit Lcd display with back light

4-20mA current loop powered

Calibrating and do setting on panel

2-way alarm output



BOX Breathable Waterproof Junction Box

Breathable: Waterproof Junction widely used to kinds of level Transducer

Note: Patent No. 200820222718.5



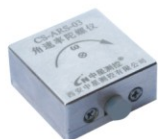
CS-ARS-01/01A Single Axis Gyro

- Measurement Range: $\pm 75^\circ/\text{S}$ (01)
 $\pm 150^\circ/\text{S}$ (01A)
- Bias Stability: $\leq 0.05^\circ/\text{S}$ (01)
 $\leq 0.1^\circ/\text{S}$ (01A)
- Bandwidth: $\geq 40\text{Hz}$
- Size: 38mm x 38mm x 15.5mm
- CS-ARS-01 RS485 Digital Output
CS-ARS-01A Analog Voltage Signal Output
- Calibration Temperature Range
- Non-Linearity Calibration
- Small Size, Low Weight, High Shock Survivability
- Patent No.: 200420042333X



CS-ARS-02/02C/04 Single Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
- Bias Stability: $\leq 0.1^\circ/\text{S}$
- Bandwidth: $\geq 40\text{Hz}$
- Size: 38mm x 28mm x 12.8mm (02)
28mm x 18mm x 14.8 mm (02C)
 $\Phi 30\text{mm}$ x 13.9mm (04)
- Wide Measurement Range
- Small Size, Low Weight
- High Shock Survivability
- Patent No.: 200630089716 x 200630089718.9
200630089852.9 200410026355.4
200830118398.4 200610105365.6



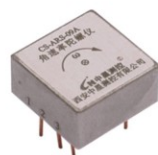
CS-ARS-03 Single Axis Gyro

- Power supply: $5 \pm 0.25\text{ VDC}$
- Current: $\leq 8\text{mA}$
- Zero Bias: $2.5 \pm 0.1\text{VDC}$ (25°C)
- Zero Bias Stability: $\leq 0.1^\circ/\text{s}$
- Non-linearity: $\leq 0.5\% \text{F.S}$
- Resolution: $\leq 0.1^\circ/\text{s}$
- Output: 0-5V
- Temperature Range: $-40 - 85^\circ\text{C}$
- Dimension: 29mm x 29mm x 13.5mm
- Measurement range can be customized.
- Maximum range reaches $\pm 5500^\circ/\text{s}$
- Bandwidth can be customized.
- Maximum range reaches 400Hz
- Small dimension and light weight
- Impact strength reaches 2000g



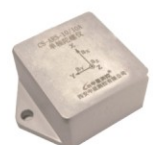
CS-ARS-07 Single Axis Gyro

- Measurement Range: $\pm 50^\circ/\text{S}$
- Bias Stability: $\leq 0.02^\circ/\text{S}$
- Bandwidth: $\geq 60\text{Hz}$
- Size: $\Phi 41\text{mm}$ x 17mm
- High Bias Stability, Low Noise
- RS485 Digital Output
- Calibration For Temperature, Non-Linearity, Noise



CS-ARS-09/09A Single Axis Gyro

- Measurement Range: $\pm 5500^\circ/\text{S}$ (09)
 $\pm 9000^\circ/\text{S}$ (09A)
- Bandwidth: $\geq 60\text{Hz}$
- Size: 18mm x 18mm x 7mm (09)
14mm x 14mm x 7mm (09A)
- Wide Measurement Range
- Secondarily Integrated Thick Film and Carrying Jointing Technics
- Metal Hermetic Encapsulation
- High Integration, Compact Structure, strong
- Anti-Jamming
- High Shock Survivability
- Small Size, Low Weight
- Patent No.: 200830117418.6
200830117419.0



CS-ARS-10/10A Single Axis Gyro

- Power supply: $5 \pm 0.25\text{ VDC}$
- Current: $\leq 20\text{mA}$
- Zero bias: $2.5 \pm 0.1\text{VDC}$ (25°C)
- Zero bias stability: $\leq 0.05^\circ/\text{s}$
- Non-linearity: $\leq 0.2\% \text{F.S}$
- Resolution: $\leq 0.1^\circ/\text{s}$
- Output: 0- 5V and RS485
- Temperature range: $-40 - 85^\circ\text{C}$
- Dimension: 38mm x 28mm x 12.8mm
- Measurement range can be customized.
- Maximum range reaches $\pm 1000^\circ/\text{s}$
- Excellent linearity
- Small dimension and light weight
- Impact strength reaches 4000g

Inertial Navigation Sensor



CS-ARS-12/12A/12B Single Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
Bias Stability: $\leq 0.015^\circ/\text{S}$
Bandwidth: $\geq 50\text{Hz}$
Size: $\Phi 41\text{mm} \times 15\text{mm}$ (12/12A)
 $\Phi 41\text{mm} \times 17\text{mm}$ (12B)
- High Precision, Low Noise
Optional Measurement Range and Bandwidth
High Resolution
Small Size, Low Weight



CS-ARS-14 Single Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
Bias Stability: $\leq 0.015^\circ/\text{S}$
Bandwidth: $\geq 60\text{Hz}$
Size: $33\text{mm} \times 33\text{mm} \times 18.5\text{mm}$
- High Bias Stability, Low Noise
Measurement Range and Bandwidth
Measurement
Range and Bandwidth is optional
Calibration Temperature Range
Noise Processed
Optional Output Signal (Unipolar /Bipolar Difference)
Electric Current/Voltage, Electromagnetism
Disturbing Safety Function
- Patent No.: 200510096134.9



CS-ARS-15A/15D Single Axis Gyro

- Measurement Range: $\pm 150^\circ/\text{S}$ (15A)
 $\pm 250^\circ/\text{S}$ (15D)
Bias Stability: $\leq 0.015^\circ/\text{S}$ (15A)
 $\leq 0.008^\circ/\text{S}$ (15D)
Bandwidth: $\geq 60\text{Hz}$
Size: $45\text{mm} \times 24\text{mm} \times 21\text{mm}$ (15A)
 $47.5\text{mm} \times 39.6\text{mm} \times 29\text{mm}$ (15D)
- High Bias Stability
Calibration Temperature Range
Combined with Data Fusion Technology
RS485 Digital Output/Voltage Signal Output



CS-ARS-17 Single Axis Gyro

- Power supply: $5 \pm 0.25\text{VDC}$
Current: $\leq 10\text{mA}$
Zero bias: $1.6 \pm 0.1\text{VDC}$ (25°C)
Zero bias stability: $\leq 0.05^\circ/\text{s}$
Non-linearity: $\leq 1\% \text{F.S}$
Resolution: $\leq 0.1^\circ/\text{s}$
Output: $0-5\text{V}$
Temperature range: $-40-85^\circ\text{C}$
Dimension: $28\text{mm} \times 18\text{mm} \times 14.8\text{mm}$
- Measurement range can be customized
Maximum range reaches $\pm 1000^\circ/\text{s}$
Small dimension and light weight
Excellent impact resistance
Economically designed



CS-ARS-18 Single Axis Gyro

- Power supply: $4.5-5.5\text{VDC}$
Current: $\leq 30\text{mA}$
Zero bias stability: $\leq 0.012^\circ/\text{s}$
Non-linearity: $\leq 0.2\% \text{F.S}$
Resolution: $\leq 0.02^\circ/\text{s}$
Output: RS422
Temperature range: $-40-85^\circ\text{C}$
Dimension: $38\text{mm} \times 38\text{mm} \times 20\text{mm}$
- High zero bias stability
Excellent linearity
Full temperature compensation
RS422 output
Excellent impact and vibration resistance



CS-2ARS Dual Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
Bias Stability: $\leq 0.1^\circ/\text{S}$
Bandwidth: $\geq 100\text{Hz}$
Size: $29.6\text{mm} \times 43\text{mm} \times 29.6\text{mm}$
- Wide Measurement Range
Small Size, Low Weight
High Shock Survivability

Inertial Navigation Sensor



CS-2ARS-02A/02C Dual Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
- Bias Stability: $\leq 0.015^\circ/\text{S}$
- Bandwidth: $\geq 50\text{Hz}$
- Size: 40mm x 38mm x 24mm (02A)
45mm x 38mm x 24mm (02C)
- Low Noise, High Bias Stability
- Voltage Signal Output



CS-2ARS-04 Dual Axis Gyro

- Measurement Range: $\pm 75^\circ/\text{S}$
- Bias Stability: $\leq 0.05^\circ/\text{S}$
- Bandwidth: $\geq 40\text{Hz}$
- Size: 48mm x 35mm x 48mm
- Wide Measurement Range (customized)
- RS485 Digital Output
- Calibration Temperature Range
- Triaxial crossed Coupling Calibration
- Small Size, Low Weight



CS-3ARS-02B 3 Axis Gyro

- Measurement Range: $\pm 100^\circ/\text{S}$
- Bias Stability: $\leq 0.1^\circ/\text{S}$
- Bandwidth: $\geq 40\text{Hz}$
- Size: 48.5mm x 36mm x 30mm
- Wide Measurement Range(customized)
- Small Size, Low Weight
- High Reliability



CS-3ARS-04 3 Axis Gyro

- Measurement Range: $\pm 75^\circ/\text{S}$
- Bias Stability: $\leq 0.05^\circ/\text{S}$
- Bandwidth: $\geq 40\text{Hz}$
- Size: 48mm x 35mm x 48mm
- Wide Measurement Range (customized)
- RS485 Digital Output
- Calibration Temperature Range
- Small Size, Low Weight



CS-3ARS-05 3 Axis Gyro

- Measurement Range: $\pm 250^\circ/\text{S}$ (X axis)
 $\pm 100^\circ/\text{S}$ (Y axis /Z axis)
- Bias Stability: $\leq 0.015^\circ/\text{S}$
- Bandwidth: $\geq 50\text{Hz}$
- Size: 76mm x 76mm x 38mm
- Low Noise, High Precision
- Wide Measurement Range (customized)
- RS485 Digital Output
- Calibration Temperature Range
- Triaxial crossed Coupling Calibration
- Small Size, Low Weight



CS-3ARS-06 3 Axis Gyro

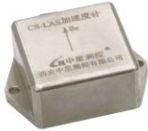
- Power supply: 4.5- 5.5 VDC
- Current: $\leq 30\text{mA}$
- Zero bias: $\leq 1.5 \pm 0.1\text{VDC}$
- Non-linearity: $\leq 1\%\text{F.S}$
- Resolution: $\leq 0.1^\circ/\text{s}$
- Output: 0- 5V
- Temperature range: $-40- 85^\circ\text{C}$
- Dimension: 28mm x 18mm x 14.8mm
- Economically designed
- Measurement range and bandwidth can be customized. Maximum range reaches $\pm 400^\circ/\text{s}$
- Small dimension and light weight
- High stability
- Excellent impact and vibration resistance

Inertial Navigation Sensor



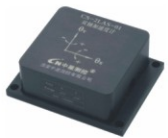
CS-3ARS-07 3 Axis Gyro

- Power supply: 4.5- 5.5 VDC
- Current: ≤ 30 mA
- Zero bias: $\leq 0.1^\circ/\text{s}$
- Non-linearity: $\leq 1\%$ F.S
- Resolution: $\leq 0.1^\circ/\text{s}$
- Output: RS422
- Temperature: $-40-85^\circ\text{C}$
- Dimension: 48 mm \times 38 mm \times 18 mm
- Economically designed Measurement range and bandwidth can be customized.
- Maximum range reaches $\pm 400^\circ/\text{s}$
- Small dimension and light weight
- RS422 Output
- High stability
- Excellent impact and vibration resistance



CS-LAS-05 Single Axis Accelerometer

- Measurement Range: $\pm 20g$
- Bandwidth: 0- 22KHz
- Size: 35mm \times 28mm \times 14.5mm
- Wide Measurement Range (customized)
- Small Size, Low Weight
- Frequency response : up to 22KHz
- High Reliability



CS-2LAS-01 Dual Axis Accelerometer

- Power: 6- 8 VDC
- Power Current: ≤ 60 mA
- Zero Bias: $\pm 0.1g$
- Zero Bias temperature drift: $\pm 0.1g$
- Non- Linearity: $\leq 0.5\%$ F.S
- Resolution: $\leq 5mg$
- Output: RS485
- Temperature range: $-40-85^\circ\text{C}$
- Size: 48mm \times 38mm \times 18 mm
- Wide Measurement Range, Optional $\pm 2- \pm 70g$
- Small Size, Low Weight
- Full temperature range compensated, non-Linearity correction



CS-LAS-03 Single Axis Accelerometer

- Measurement Range: ± 10 g
- Bandwidth: 0- 1500Hz
- Size: 23mm \times 32mm \times 21mm
- Wide Measurement Range (customized)
- Small Size, Low Weight
- Magnetic Pulling Installation
- High Reliability



CS-LAS-04 Single Axis Accelerometer

- Measurement Range: ± 2000 g
- Bandwidth: 0- 1500Hz
- Size: 12.5mm \times 8mm \times 9.5mm
- Wide Measurement Range (customized)
- High Frequency Response
- Small Size, Light Weight
- Application: shock test and vibration detect
- High Reliability



CS-2LAS/CS-2LAS-02 Single Axis Accelerometer

- Measurement Range: $\pm 2g$
- Bandwidth: $\geq 50\text{Hz}$
- Size: 18.8mm \times 12.7mm \times 8.4mm
- Wide Measurement Range
- Small Size, Low Weight
- Self-testing Function
- High Reliability



CS-2LAS-03 Dual Axis Accelerometer

- Power: ± 0.05 VDC
- Power current: ≤ 6 mA
- Zero Bias: $2.5 \pm 0.1\text{VDC}$
- Non-Linearity: $\leq 0.5\%$ F.S
- Resolution: $\leq 1mg$
- Output: 0- 5V
- Temperature range: $-40-85^\circ\text{C}$
- Size: 22.8 mm \times 22.8 mm \times 20.6 mm
- Measurement range up to $\pm 10g$
- Small Size, Low Weight
- Magnetic type installation
- Self-testing function
- High Reliability

Inertial Navigation Sensor



CS-3LAS 3 Axis Accelerometer

- Measurement Range: $\pm 3g$
Bandwidth: 0- 500Hz
Size: 19mm x 13mm x 8.5mm
- Wide Measurement Range
Small Size, Low Weight
Self-test Function
High Reliability



CS-3LAS-01 3 Axis Accelerometer

- Measurement Range: $\pm 2g$
Bandwidth: 0- 400Hz
Size: 55mm x 55mm x 35mm
- Wide Measurement Range
Small Size, Low Weight
High Reliability
Digital Output
Calibration Temperature range



CS-3LAS-02 3 Axis Accelerometer

- Measurement Range: $\pm 10g$
Bandwidth: $\cong 60Hz$
Size: 55mm x 55mm x 35mm
- High Bias Stability, Low Noise
Wide Measurement Range
Small Size, Low Weight
High Reliability
Digital Output
Calibration Temperature range
Triaxial crossed coupling Calibration



CS-3LAS-03 3 Axis Accelerometer

- Measurement Range: $\pm 20g$
Bandwidth: 0- 10KHz
Size: 40mm x 26mm x 15mm
- Wide Measurement Range
Small Size, Low Weight
Frequency Response : up to 22KHZ
High Reliability



CS-i2LAS Wireless Accelerometer (Scale products)

- Measurement Range: $\pm 1g$
System Accuracy: $\pm 0.5\%F.S$
Size: 38mm x 38mm x 20mm
- Battery Powered, wireless communication
Wide Measurement Range
Small Size, Low Weight
High Reliability



CS-TAS-01 Single Axis Inclinator

- Power: 24 ± 2 VDC
Power current: $< 40mA$
Zero Bias: $\leq 0.1^\circ$
Accuracy: $\leq 1\%F.S$
Resolution: $\leq 0.1^\circ$
Output: Digital pulse
Temperature Range: $-40-5^\circ C$
Size: 82mm x 52mm x 43 mm
- Wide measurement range
Full temperature scale compensated
Non-Linearity correction
Digital pulse output



CS-TAS-05 Single Axis Inclinator (Scale products)

- Measurement Range: $\pm 90^\circ, \pm 180^\circ$
Accuracy: $\pm 0.1\%F.S$
Resolution: 0.01°
Bandwidth: 5Hz
Size: 60mm x 60mm x 30mm
- Wide Measurement Range
Calibration Temperature Range
Non-Linearity Calibration
RS485 Digital output
IP66 Safety Grade

Inertial Navigation Sensor



CS-TAS-06 Single Axis Inclinometer

- Power: 10- 30 VDC
Power current: < 50mA
Zero bias: $\leq 0.1^\circ$ (25°C)
Non-linearity: $\leq 0.2\%$ F.S
Resolution: $\leq 0.01^\circ$
Output: CS-TAS-05: 4- 20mA
CS-TAS-06: RS485
Temperature range: -40- 70°C
Size: 60mm×60mm×30mm
- Wide Measurement range
Full temperature scale compensated
Non-Linearity correction
IP66 protection class



CS-2TAS-01/01E Dual Axis Inclinometer

- Power: 10 - 30VDC
Power current: < 20mA
Zero bias: $\leq 0.2^\circ$ (25°C)
Non-linearity: $\leq 0.5\%$ F.S
Resolution: $\leq 0.1^\circ$
Output: CS-2TAS-01E: 0.5- 4.5V
CS-2TAS-01: RS485
Temperature range: -40- 70°C
Size: 48 mm×38 mm×18 mm
- High resolution
Full temperature scale compensated
Non-linearity compensated and correction
Range optional



CS-2TAS-02/02A Dual Axis Inclinometer

- Power: 10-30VDC
Power Current: < 20mA
Zero Bias: 0.2° (25°C)
Non-linearity: $\leq 0.3\%$ F.S
Resolution: $\leq 0.05^\circ$
Output: RS485
(CS-2TAS-02A Full temperature scale compensated)
Temperature range: -40- 70°C
Size: 38mm×38mm×15.5 mm
- Both Pitch and Roll supplied
Good Non-linearity
High Resolution
Small Size, Low Weight
High Shock Survivability



CS-2TAS-01A/B/D/F/G Dual Axis Inclinometer

- Power: 10- 30VDC
Power current: < 20mA
Non-linearity: $\leq 0.5\%$ F.S
Resolution: $\leq 0.1^\circ$
Output: CS-2TAS-01A: 0.5- 4.5V, Voltage output
CS-2TAS-01B: RS232, Digital output
CS-2TAS-01D: 4- 20mA, Current output
CS-2TAS-01F: RS485, Digital output
CS-2TAS-01G: Pulse output
Temperature range: -40- 70°C
Size: 82mm×52mm×43 mm
- High resolution, Low Cost
Full temperature scale compensated
Non-linearity compensated and correction
Range optional



CS-2TAS-02 Dual Axis Inclinometer

- Measurement Range: $\pm 60^\circ$
Bandwidth: 5Hz
Size: 38mm x 38mm x 20mm
- Both Pitch and Roll Supplied
RS485 Digital Output
Small Size, Low Weight
High Shock Survivability
- Patent No.: 200620136463.1
200830118401.2



CS-2TAS-03/05/06 Dual Axis Inclinometer

- Measurement Range: $\pm 75^\circ$
Accuracy: $\pm 0.1\%$ F.S
Resolution: 0.01°
Bandwidth: 5Hz
Interface Type: RS485 (03)
4- 20mA (05)
CAN Bus (06)
Size: 60mm x 60mm x 30mm
- High Resolution
Calibration Temperature Range
Non-Linearity Calibration
Water proof, Damp proof, Dust proof

Inertial Navigation Sensor



GUD75 Dual Axis Inclinometer for Coal Mine

- Power: $12 \pm 10\%$ VDC
Power current: $< 100\text{mA}$
Non-linearity: $\leq 0.3\%$ F.S
Zero bias: $\pm 0.4^\circ$
Zero bias temperature drift: 0.1°
Resolution: $\leq 0.05^\circ$
Output: CAN
Temperature range: $0 - 40^\circ\text{C}$
Size: $102\text{mm} \times 90\text{mm} \times 52\text{mm}$
- Coal Safety certificate, No. SHHEXC12.0350
High Resolution
Digital Can bus output, CANOPEN Agreement
High stability, good resistance to interference
High shock Survivability



CS-2TAS-07A Dual Axis Inclinometer

- Power: $8 - 26\text{VDC}$
Power current: $< 5\text{mA}$
Non-linearity: $\pm 0.1^\circ$
Zero bias: $\pm 0.2^\circ$ (25°C)
Zero bias temperature drift: 0.1°
Resolution: $\leq 0.05^\circ$
Output: RS485
Temperature range: $-40 - 85^\circ\text{C}$
Size: $82\text{mm} \times 52\text{mm} \times 43\text{mm}$
- Lower power consumption
Digital output RS485
Approval of Electromagnetic compatibility, measurement certificate
High ability resistance to impact
Resistance water, wet and dust



CS-TSW-01/02 Inclinometer Switch

- Power: $24 \pm 3\text{VDC}$
Power current: $< 50\text{mA}$
Range: $\pm 35^\circ$
Back error: $\pm 0.1^\circ$
Resolution: $\leq 0.1^\circ$
Output: CS-TSW-01, Switch point output
CS-TSW-02, OC output
Temperature range: $-40 - 70^\circ\text{C}$
Size: $82\text{mm} \times 52\text{mm} \times 43\text{mm}$
- High stability, resistance to interference
Resistance to impact
Resistance water, wet and dust



CS-i2TAS (Wireless Inclinometer) (Scale products)

- Measurement Range: $\pm 90^\circ$
System Accuracy: $\pm 0.5\%$ F.S
Size: $60\text{mm} \times 60\text{mm} \times 30\text{mm}$
- Battery powered, wireless communication
Wide Measurement Range
Small Size, Low Weight
High Reliability



CS-VG (CS-2TAS-04) Vertical Goroscope

- Pitch: $\pm 90^\circ$
Roll: $\pm 180^\circ$
Rolling angle Range: $< 2^\circ$ (RMS)
Pitch Range: $< 0.5^\circ$
- High Precision and Bias Stability
Real-time Measurement in Dynamic Environment
Both the Angular Signal and Angular Rate Signal Supplied
Both the pitch and the roll Supplied



CS-VG-02 Vertical Goroscope

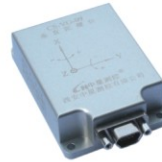
- Pitch: $\pm 90^\circ$
Roll: $\pm 180^\circ$
Rolling angle Range: $< 2.5^\circ$ (RMS)
Pitch Range: $< 0.6^\circ$
- Real-time Measurement in Dynamic Environment
Both the Angular Signal and Angular Rate Signal Supplied
Both the pitch and the roll Supplied
Small Size, Low Weight
High Reliability

Inertial Navigation Sensor



CS-VG-05 Vertical Goroscope

- Power:10- 30 VDC
- Power current:<70mA
- Picth range:±90°
- Roll range:±180°
- Static accuracy:0.8°
- Dynamic accuracy:2.5°
- Gyro Zero bias: <0.15°/s (25℃)
- Gyro Zero temperature drift: <0.15°/s
- Gyro Non-linearity: <0.15 % F.S
- Acceleration Zero bias: <6mg
- Acceleration Zero bias temperature drift: <6mg
- Acceleration Non-linearity: <0.5 % F.S
- Output:RS422
- Temperature range:-40- +70℃
- Size:72mm×45mm×20 mm
- Real-time Measurement in Dynamic Environment
- Both Angular Signal and Angular Rate Signal Supplied
- Both Pitch and Roll Supplied
- Small Size, Low Weight
- High Reliability



CS-VG-09 Vertical Goroscope

- Power supply: 5VDC
- Current:<30mA
- Pitch: ±90°
- Roll: ±180°
- Static accuracy: 0.6°
- Dynamic accuracy: 2.5°
- Bias: < 0.25°/s(25℃)
- Bias Drift: <0.25°/s
- Non-linearity: < 3 % F.S
- Acceleration Dias: <5mg
- Acceleration Bias Drift: <5mg
- Acceleration Non-linearity: < 0.5%F.S
- Output signal:RS422
- Temperature range:-40- 70℃
- Size: 72mm x 45mm x 20mm
- Low consumption
- Both the Angular Signal and Angular Rate Signal Supplied
- Both the pitch and the roll Supplied
- Small Size, Low Weight

CS-ARAS

(Angular Rate Sensor + Dual Axis Accelerometer)



- Measurement Range: ±100° (Gyroscope)
±1.8g (Accelerator)
- Bandwidth: ≥40Hz
- Size: 70mm x 42mm x 27.5mm
- Z axis-Gyro, X-axis accelerator
- High reliability
- Small Size, Low Weight
- Used in stability control system of vehicles
- Patent No.: 200830118400.8
200820029995.4



CS-ARAS-01 Vehicles Gyro

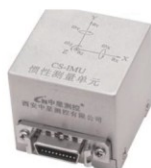
- Power supply:5 VDC
- Current:<30mA
- Bias:1.23±0.1VDC(Gyroscope)
- Non-linearity: ≤2 % F.S(Gyroscope)
- Resolution: ≤0.1°/s(Gyroscope)
- Bias:1.6±0.1VDC (Accelerator)
- Non-linearity:1 % F.S (Accelerator)
- Resolution:1mg (Accelerator)
- Output signal:0- 5V
- Temperature range:-40- 70℃
- Size:38 mm×38 mm×15.5 mm
- Z axis-Gyro, X-axis accelerator
- Analog voltage output
- Small Size, Low Weight
- Used in stability control system of vehicles

Inertial Navigation Sensor



CS-ARAS-02/2ARAS-01 Vehicles Gyro

- Power supply: 12 ± 0.25 VDC
Current: < 30 mA
Bias: $\leq 1^\circ/\text{s}$ (Gyroscope)
Non-linearity: $\leq 0.5\%$ F.S (Gyroscope)
Resolution: $\leq 0.1^\circ/\text{s}$ (Gyroscope)
Bias: 0.1g (Accelerator)
Non-linearity: 0.5% F.S (Accelerator)
Resolution: 1mg (Accelerator)
Output signal: CS-ARAS-02, CAN output
CS-2ARAS-02, RS485 output
Temperature range: $-40 \sim 80^\circ\text{C}$
Size: $68\text{mm} \times 82\text{mm} \times 27.5\text{mm}$
- High Reliability
Small Size, Low Weight
Used in stability control system of vehicles



CS-IMU Inertial Measurement Unit

- Measurement Range: $\pm 100^\circ/\text{s}$ (Gyroscope)
 $\pm 10\text{g}$ (Accelerator)
Non-Linearity: $\leq 0.5\%$ F.S
Bias: $2.5 \pm 0.1\text{V}$
Resolution: $\leq 0.06^\circ/\text{s}$ (Gyroscope)
 $\leq 2\text{mg}$ (Accelerator)
Bandwidth: $\geq 40\text{Hz}$
Size: $38\text{mm} \times 38\text{mm} \times 36\text{mm}$
- Wide Measurement Range
Small Size, Low Weight
High Reliability
High Shock Survivability



CS-A2LAS (Scale products)

(Angular Rate Sensor + Dual Axis Accelerometer)

- Measurement Range: $\pm 100^\circ$ (Gyroscope)
 $\pm 1.8\text{g}$ (Accelerator)
Bandwidth: $\geq 40\text{Hz}$
Size: $70\text{mm} \times 42\text{mm} \times 27.5\text{mm}$
- Z axis-Gyro, X/Y-axis accelerometer
Small Size, Low Weight
High Reliability
Tied motorcar sensor
- Patent No.: 200620136207.2



CS-IMU-04 Inertial Measurement Unit

- Measurement Range: $\pm 150^\circ/\text{s}$ (Gyroscope)
 $\pm 10\text{g}$ (Accelerator)
Non-Linearity: $\leq 0.3\%$ F.S (Gyroscope)
 $\leq 1\%$ F.S (Accelerator)
Bias: $\pm 0.2^\circ/\text{s}$ (Gyroscope) 0.02g (Accelerator)
Bias Drift: 0.3% F.S (Gyroscope)
 0.02g (Accelerator)
Bias Stability: $\leq 0.05^\circ/\text{s}$ (Gyroscope)
 $\leq 0.002\text{g}$ (Accelerator)
Resolution: $\leq 0.04^\circ/\text{s}$ (Gyroscope)
 $\leq 0.005\text{g}$ (Accelerator)
Bandwidth: $\geq 50\text{Hz}$
Size: $48\text{mm} \times 35\text{mm} \times 48\text{mm}$
- RS422 Digital Output
Calibration Temperature Range
Non-linearity Calibration, Triaxial Crossed
Coupling Calibration
Low power Consumption, High Reliability

Inertial Navigation Sensor



CS-IMU-06/06A Inertial Measurement Unit

- Power supply: 15- 30 VDC
- Current: $\leq 160\text{mA}$
- Range: $\pm 100^\circ/\text{s}$ (Gyroscope)
- Bias: $\leq 0.015^\circ/\text{s}$ (Gyroscope)
- Non-linearity: $< 0.1\%$ F.S (Gyroscope)
- Resolution: $< 0.01^\circ/\text{s}$ (Gyroscope)
- Range: $\pm 5\text{g}$ (Accelerator)
- Non-linearity: $< 0.5\%$ F.S (Accelerator)
- Resolution: 1mg (Accelerator)
- Bandwidth: $\geq 50\text{Hz}$
- Output Signal: CS-IMU-06, RS232
- CS-IMU-06A, 0- 5V
- Temperature Range: $-40- +85^\circ\text{C}$
- Size: $42\text{mm} \times 35\text{mm} \times 48\text{mm}$
- High Bias stability
- Full Temperature Range compensation
- Non-linearity Calibration, Triaxial Crossed
- Coupling Calibration, digital output
- CS-IMU-06A Analog voltage output



CS-IMU-07

- Measurement Range: $\pm 250^\circ/\text{s}$ (Gyroscope)
- $\pm 15\text{g}$ (Accelerator)
- Non-Linearity: $\leq 0.1\%$ F.S (Gyroscope)
- $\leq 2\%$ F.S (Accelerator)
- Bias: $\leq 0.15^\circ/\text{s}$ (Gyroscope)
- $\leq 0.015\text{g}$ (Accelerator)
- Bias Drift: 0.15% F.S (Gyroscope)
- 0.015g (Accelerator)
- Bias Stability: $\leq 0.015^\circ/\text{s}$ (Gyroscope)
- $\leq 0.5\text{mg}$ (Accelerator)
- Resolution: $\leq 0.01^\circ/\text{s}$ (Gyroscope)
- $\leq 0.5\text{mg}$ (Accelerator)
- Bandwidth: $\geq 100\text{Hz}$
- Size: $70\text{mm} \times 60\text{mm} \times 54\text{mm}$
- High Precision and Bias Stability
- RS422 Digital Output
- Calibration Temperature Range
- Non-linearity Calibration, Triaxial Crossed
- Coupling Calibration



CS-IMU-08 Inertial Measurement Unit

- Power supply : 15- 30 VDC
- Current: $\leq 70\text{mA}$
- Bias: $< 0.15^\circ/\text{s}$ (Gyroscope)
- Bias: $< 0.15^\circ/\text{s}$ (Gyroscope)
- Bias stability: $\leq 0.015^\circ/\text{s}$ (Gyroscope)
- Non-linearity: $< 0.1\%$ F.S (Gyroscope)
- Resolution: $< 0.03^\circ/\text{s}$ (Gyroscope)
- Bias: $< 10\text{mg}$ (Accelerator)
- Bias: $< 10\text{mg}$ (Accelerator)
- Non-linearity: $< 2\%$ F.S (Accelerator)
- Resolution: $< 1.7\text{mg}$ (Accelerator)
- Output signal: RS422
- Temperature range: $-40- +70^\circ\text{C}$
- Size: $90\text{mm} \times 87\text{mm} \times 60\text{mm}$
- Ultra-low temperature work
- High accuracy, high stability
- Digital RS422 output
- Full Temperature Range compensation
- Non-linearity Calibration, Triaxial Crossed
- Coupling Calibration



CS-IMU-09 Inertial Measurement Unit

- Power supply: $+3.3\text{VDC}$
- Current: $\leq 23\text{mA}$
- Angle measurement accuracy: $< 2^\circ$
- Acceleration measurement accuracy: 5mg
- Non-linearity: $< 0.2\%$ F.S (Gyroscope)
- Non-linearity: $< 0.5\%$ F.S (Accelerator)
- Output signal: UART(TTL PWL) Output
- Working temperature: $-40- +70^\circ\text{C}$
- Size: $59\text{mm} \times 40\text{mm} \times 17\text{mm}$
- Measurement of the power line dancing
- Output of Three-axis angular velocity, three axes acceleration and Three - axis attitude
- Output of Dancing acceleration of three-dimensional space
- Dancing speed and dancing amplitude
- Full Temperature Range compensation
- Non-linearity Calibration, Triaxial Crossed
- Coupling Calibration
- UART(TTL PWL) output
- Low consumption, low volume, low weight

Inertial Navigation Sensor



CS-IMU-10 Inertial Measurement Unit

- Power supply: 10- 30 VDC
- Current: $\leq 70\text{mA}$
- Bias: $\pm 0.5^\circ/\text{s}$ (Gyroscope)
- Bias Drift: $\pm 0.5^\circ/\text{s}$ (Gyroscope)
- Non-linearity: $0.5\% \text{F.S}$ (Gyroscope)
- Resolution: $\leq 0.1^\circ/\text{s}$ (Gyroscope)
- Bias: $\pm 10\text{mg}$ (Accelerator)
- Bias Drift: $\pm 20\text{mg}$ (Accelerator)
- Non-linearity: $\leq 0.5\% \text{F.S}$ (Accelerator)
- Resolution: $\leq 1 \text{ mg}$ (Accelerator)
- Output Signal: CAN bus output
- Working temperature: $-40 - +70^\circ\text{C}$
- Size: $64 \text{ mm} \times 45 \text{ mm} \times 35 \text{ mm}$
- Full - temperature range compensation
- Non-linearity Calibration, Triaxial Crossed Coupling Calibration
- Low Volume, Low Weight
- High shock resistance



CS-AHRS-01

Attitude and Heading Reference System

- Measurement Range: $\pm 180^\circ$ (Heading Angle)
 $\pm 90^\circ$ (Pitch/Roll)
- Accuracy: $\pm 0.5^\circ$ (10s)
 $\pm 5^\circ$ (100s) (Heading Angle)
 $\pm 0.2^\circ$ (10s)
 $\pm 2^\circ$ (100s) (Pitch/Roll)
- Bandwidth: $\geq 5\text{Hz}$
- Size: $76 \text{ mm} \times 76 \text{ mm} \times 38 \text{ mm}$
- High Precision and bias Stability
- Calibration Temperature Range
- Non-Linearity Calibration, Triaxial Crossed Coupling Calibration
- RS232 Digital output
- Short time Heading and Attitude System
- High Reliability
- Without magnetometer



CS-AHRS-02

Attitude and Heading Reference System

- Measurement Range: $0 - 360^\circ$ (Heading Angle)
 $\pm 90^\circ$ (Pitch)
 $\pm 180^\circ$ (Roll)
- Accuracy: $\leq 0.7^\circ$ (RMS) (Heading Angle)
 $\leq 0.4^\circ$ (RMS) (Pitch/Roll)
- Bandwidth: $\geq 40\text{Hz}$
- Size: $126.5 \text{ mm} \times 31.3 \text{ mm} \times 29 \text{ mm}$
- High Precision and Bias Stability
- Calibration Temperature Range
- Non-Linearity Calibration, Triaxial Crossed Coupling Calibration
- RS232 Digital output
- Heading and Attitude System with High Accuracy
- High Reliability
- Kalman Filter Algorithm for Elimination



CS-AHRS-03

Attitude and Heading Reference System

- Measurement Range: $0 - 360^\circ$
(Heading Angle/Pitch/Roll)
- Accuracy: $\leq 1^\circ$ (Heading Angle)
 $\leq 0.03^\circ$ (Pitch/Roll)
- Size: $60 \text{ mm} \times 32 \text{ mm} \times 16 \text{ mm}$
- Small Size, Low Weight
- RS485 Digital Output
- Mercantile Type
- Low Power Consumption

CS-AHRS-04

Attitude and Heading Reference System

- Measurement Range: $0 - 360^\circ$ (Heading Angle)
 $\pm 90^\circ$ (Pitch)
 $\pm 180^\circ$ (Roll)
- Accuracy: $\leq 0.8^\circ$ (10s) (Heading Angle)
 $\leq 0.5^\circ$ (10s) (Pitch/Roll)
- Rolling Angle Range: $\leq 2.5^\circ$
(Heading Angle/Pitch/Roll)
- Bandwidth: $\geq 50\text{Hz}$
- Size: $45 \text{ mm} \times 45 \text{ mm} \times 30 \text{ mm}$
- Small Size, Low Weight
- RS422 Digital Output
- Industrial Grade
- Low Power Consumption



Patent No. ZL 201120377067.9
Patent Application No. 201230081524.X
Patent Application No. 201220097950.7

The First in the world The Invention from Xi'an



FUNCTION

- ◎ Automatic warning through single or multiple SMS to family members' mobile phones
- ◎ Voice prompt at site when falling down
- ◎ Manual press key to send single or multiple SMS in emergency situation
- ◎ SMS check for one's status
- ◎ Friendly reminder at the appointed time
- ◎ SMS reminder when battery runs low
- ◎ SMS reminder when switching on
- ◎ GPS and phone function (CS299)

Filiality first, always with you.

Sales Website: www.websensor.com

Look for Distributors



Exports has reached 52 countries in 2011.

XI'AN CHINASTAR M&C LIMITED

Address:

D Section Gazelle Valley,
C-1 Region Pioneering Development Park
#69 Jinye Road,Xi'an HI-Tech Development Zone
Xi'an ,Shaanxi Province ,
P.R.China
Tel:0086-29-88325620
Fax:0086-29-88237768