HUAZHEN PRODUCT CATALOG



In pursuit of precision For value-added customized services

Solid State Battery Indicator

Indicate the real battery state of charge and battery capacity.....



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HUAZHEN PRODUCT CATALOG



COMPANY OVERVIEW

SHAOXING HUAZHEN ELECTRONIC CO., LTD is a dynamic trading company, mainly dealing with import and export business on automotive gauges, sensors, instrument clusters, auto body parts and solid-state lighting fixtures.

Our team is composed of 2 advanced marketing managers who have experience in overseas market 7-13 year, and 2 assistant engineers with relevant professional experience over 15 years.

Ms. B., Chen Ms. Y. N., Qian

Mr. X. B., Wang Mr. Y. P., Zhang

Our team also include external senior engineers, who have experience in relative business over 20 year.

Mr. Y. Q., Yang Mr. K. X., Lee Mr. X. M., Gao

We set up close and long term relationship with our suppliers and promote their products in the world market. Our team has full skills in technical communications, import and export business. We recommend customized products to meet customers' demands for salable features, such as flexibility, cost, capacity, and economy of operation.

We take great pride and care in every aspect of our company. This is reflected in our rigorous quality control measures, every effort to meet customers' needs and ever increasing markets. We make specified engineered products from a selected group of associated Chinese manufacturers, and ship the finished goods to our customers, contributing impeccable value with high quality components and assemblies under our efficient process control system.

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SHAOXING HUAZHEN has made every effort to insure that information in this catalog is accurate and complete, however we are not responsible for errors, insufficiency or omissions. Because of our dedication to excellence and improvement, SHAOXING HUAZHEN reserved the right to change specifications at any time, without notice or obligation. Consult sales@sxhzelect.com if certified dimensions are needed.



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1.1 Programmable Speedometer



SHAOXING HUAZHEN's speedometers are well known for their reliability and extensive applications. These speedometers are driven by signals generated from a pulse sensor. They function over a broad range of applications by using programming switches for programmability.

- Programmable speedometers can be programmed in 255 different ways.
- Scratch-resistant glass lenses are filled on galvanized white iron case with rubber bush to resist corrosion and vibration. The cases are of standard 3-3/8"(85mm) in diameter with single U-shaped bracket mounting, which fits SAE 3-3/8" standard mounting hole.
- Speedometer meets SAE J1226 at ambient, ±3% full scale @ -7°C ~54°C
- Green LED odometer records the real total trip, meeting SAE J1226, ±3% full scale @ -7°C ~54°C
- Standard bezel, easy-to-read graphics, LED backlit illumination, light-transmitting pointer with standard hub complies to SAE J1399 regulations
- All models include plug, wire lead, and mounting hardware
- Nominal voltage:
- 12V (DC9V~16V)
- 24V (21V~27V)
- Made in China
- 12V/24V optional

HZ21131WR HZ21132WR HZ21131BR HZ21132BR HZ21131WR HZ21832WR HZ21731BW HZ21932BW

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Model Encodement



Code No.	Indica	VDC	Bezel	Face	Pointer	
HZ21: Electrical Programmable Speedometer	1: 0-120mph/195kmh 2: 0-140mph/225kmh 3: 0-85mph/140kmh 5: 0-220kmh 7: 0-140kmh 9: 0-80mph	1S: 0-120mph 2S: 0-140mph 3S: 0-85mph 6: 0-180kmh 8: 0-120kmh 0: 0-300kmh	1: 12V 2: 24V 3: 12V/24V	1: Chrome 2: Black	W: white B: black	R: red W: white

As the only representative of China's largest private owned speedometer manufacturer to heavy duty, marine, and automotive markets, SHAOXING HUAZHEN offers a vide variety of speedometers specifically for your needs. SHAOXING HUAZHEN also customizes your speedometer applications. Indicating range, face color, operating voltage, bezel and needle type can be customized made by contacting: sales@sxhzelect.com. For matched pulse sensors, please refer to Page: 25-26

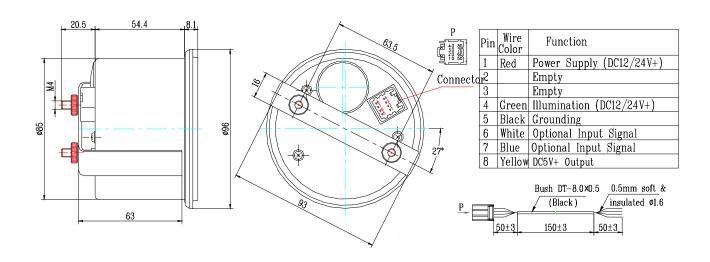
How to order

Product	Indicating range	Face	Voltage	Bezel
Speedo	$0\sim$ mph	White	12V 🗆	Black □
85mm	$^{ m 0}\sim$ km/h	Black □ Other□	24V □ 12V/24V □	Chrome \square

Packaging & Outside Dimensions

Each is packed in a white paper box with transparent PVC window to show the face.

36 units in a carton, measuring 52cm*52cm*48cm. Gross weight: 18 kgs Net wet: 17 kgs



1.2 Programmable Tachometer



As with our speedometer, SHAOXING HUAZHEN's tachometer is designed to withstand adverse environments and is the most comprehensive of any OEM and aftermarket supplier. Programmable, ignition and alternator tachometers are available.

- Programmable speedometers can be programmed in 255 different ways.
- Scratch-resistant glass lenses are filled on galvanized white iron case with rubber bush to resist corrosion and vibration. The cases are of standard 3-3/8"(85mm) in diameter with single U-shaped bracket mounting, which fits SAE 3-3/8" standard mounting hole.
- ullet Tachometer meets SAE J1399 at ambient, ±3% full scale @ -7 $^{\circ}$ C \sim 54 $^{\circ}$ C
- Green LED hour meter records the real engine working time, meeting SAE J1399, ±1% full scale @ -7℃~54℃
- Standard bezel, easy-to-read graphics, LED backlit illumination, light-transmitting pointer with standard hub complies to SAE J1399 regulations
- All models include plug, wire lead, and mounting hardware
- Nominal voltage:
- 12V (DC9V~16V)
- 24V (21V~27V)
- Made in China
- 12V/24V optional



HZ22331WY



HZ22431BY



HZ22822BN



HZ22332WY



HZ22331BN



HZ22422BY



HZ22331BY



HZ22531BY



HZ22022BY



HZ22332BY



HZ22631BYW



HZ22632BN



Model Encodement



Code No.	Indication		VDC	Bezel	Face	LCD
HZ22: Electrical Programmable Tachometer	1: 0-8000rpm 3: 0-4000rpm 5: 0-5000rpm 7: 0-10000rpm 9: 0-12500rpm	2: 0-7000rpm 4: 0-3000rpm 6: 0-6000rpm 8: 0-2000rpm 0: 0-2500kmh	1: 12V 2: 24V 3: 12V/24V	1: Chrome 2: Black	W: white B: black	Y: with hour meter N: without hour meter

Our tachometers are designed to accept signals from ignition system, magnetic pickup or alternator rotor taps. Hour meter only count when the signal is present. Optional styling features such as bezels, ranges, custom dials and pointer colors are available by contacting: sales@sxhzelect.com. For matched magnetic senders please see Page: 26

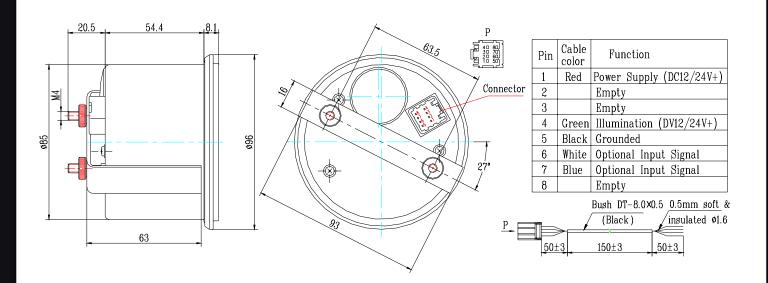
How to order

Product	Indicating range	Face	Voltage	Bezel	LED counter
Tacho		White □	12V 🗆	Black	With
85mm	0∼rpm	Black □ Other□	24V □ 12V/24V □	Chrome	Without

Packaging & Outside Dimensions

Each is packed in a white paper box with transparent PVC window to show the face.

36 units in a carton, measuring 52cm*52cm*48cm. Gross weight: 18 kgs Net wet: 17 kgs



1.3 Electrical Fuel Level Meter



All our electrical gauges are designed with a silicone dampened air core movement, and have the same case, mounting dimensions and 90° sweep. These gauges all require a sender except for amperage meter and volt meter and the senders must match the gauge type.

- Standard 2" (52mm) or 2-3/8" (60mm) galvanized white iron case with single U-shaped bracket mounting
- Scratch resistant glass lens and rubber bush are filled onto iron case to resist corrosion and vibration
- Optional LED or bulb backlit illumination, red yellow or white pointer with black hub, bright chrome or black bezel are available
- Wiring leads are totally sealed by rubber stopple
- Easy to read graphics can be customized
- Precision: ±3% full scale @ -7°C ~54°C
- Made in China
- Operating voltage: 12VDC with 12VDC gauges; 24VDC with 24V gauges



Model Encodement



Code No.	Indication	VDC	Bezel	Face	Pointer
HZ23: Electrical Fuel Level Meter	1: E~1/2~F 2: 0~1/2~1 3: 0~1/2~1 0-alarm 4: 0~1/4~1/2~3/4~1	1: 12V 2: 24V	1: Chrome 2: Black	W: white B: black G: green	R: red W: white

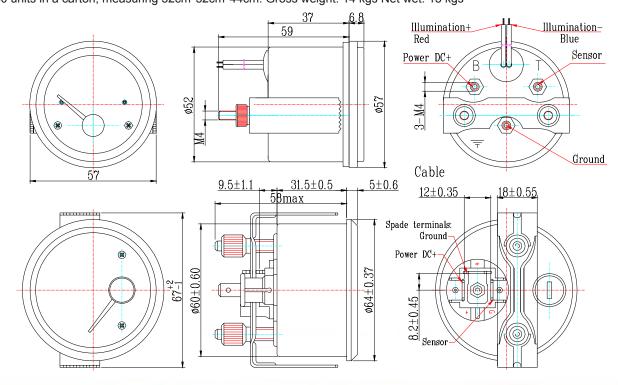
Optional styling features such as bezels, ranges, custom dials and pointer colors are available by contacting: sales@sxhzelect.com. For matched fuel level sensors please see Page: 27-28

How to order

Product	Face	Voltage	Bezel	
Fuel Meter 52mm	White Black Green Other	12V □ 24V □	Black ☐ Chrome ☐	
Indication	E	1/2	F	
E~1/2~F □ 0~1/2~1 □	Ω +	Ω +	Ω +	

Packaging & Outside Dimensions

Each is packed in a white paper box with transparent PVC window to show the face.
50 units in a carton, measuring 52cm*52cm*44cm. Gross weight: 14 kgs Net wet: 13 kgs



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1.4 Pressure Meter



As with electric fuel level meters, SHAOXING HUAZHEN's pressure meter is designed to withstand adverse environments. SHAOXING HUAZHEN's pressure gauges are of three types:

- Mechanical meter -- sweeping 270° degree, with bourdon tube movement
- Electrical meter -- sweeping 90° degree with a silicone dampened air core movement,
- Dual needle meter with bourdon tubes movement

All gauges offered in this section have the following standard features unless specified.

- Standard 2" (52mm) or 2-3/8" (60mm) galvanized white iron case with single U-shaped bracket mounting
- Scratch resistant glass lens and rubber bush are filled onto iron case to resist corrosion and vibration
- Optional LED or bulb backlit illumination, red yellow or white pointer with black hub, bright chrome or black bezel are available
- Easy to read graphics can be customized
- Wiring leads are totally sealed by rubber stopple
- Precision: ±3% full scale @ -7℃~54℃
- Made in China
- Operating voltage: 12VDC with 12VDC gauges; 24VDC with 24V gauges

1.4.1 Electrical Pressure Meter

Electrical Air Pressure Meter



Electrical Manifold Meter



Automobile Meter



Model Encodement

Code No.	Indication	VDC	Bezel	Face	Pointer
HZ24 : Electrical Air Pressure / Manifold Meter	1: 0∼150PSI 4: 0∼80PSI	1 : 12V	1: Chrome	W: white	R: red
HZ26: Electrical Oil Pressure Meter	1 : 0~100PSI 2 : 0~1.0MPa	2 : 24V	2: Black	B: black	W: white

Optional styling features such as bezels, ranges, custom dials and pointer colors are available by contacting: sales@sxhzelect.com . For matched pressure sensors please see Page: 31-32

How to order

Product	Indicating range	Face	Voltage	Bezel
Electrical Pressure 52mm	0∼PSI	White Black Other	12V 🗆 24V 🗆	Black □ Chrome □
Electrical P	Electrical Pressure Gauge		<u>xxx/2</u>	xxx
0∼ <u>xxx</u> PS	0∼ <u>xxx</u> PSI / Bar / MPa		Ω +	Ω +

Packaging & Outside Dimensions

Each is packed in a white paper box with transparent PVC window to show the face. 50 units in a carton, measuring 52cm*52cm*44cm. Gross weight: 14 kgs Net wet: 13 kgs Outside dimensions are the same as electrical fuel level meter. Please refer to Page: 6

1.5 Electrical Temperature Meter



As with electric fuel level meters, SHAOXING HUAZHEN's temperature meter is designed with a silicone dampened air core movement, 90° sweep, and have the same case withstanding adverse environments.

- Standard 2" (52mm) or 2-3/8" (60mm) galvanized white iron case with single U-shaped bracket mounting
- Scratch resistant glass lens and rubber bush are filled onto iron case to resist corrosion and vibration
- Optional LED or bulb backlit illumination, red yellow or white pointer with black hub, bright chrome or black bezel are available
- Easy to read graphics can be customized
- Wiring leads are totally sealed by rubber stopple
- Precision: $\pm 3\%$ full scale @ -7 $^{\circ}$ C \sim 54 $^{\circ}$ C
- Made in China
- Operating voltage: 12VDC with 12VDC gauges; 24VDC with 24V gauges



Automobile Meter

Model Encodement



Code No.	Indication	VDC	Bezel	Face	Pointer	
HZ25: Electrical Temperature Meter	1: 100~280°F	1: 12V 2: 24V	1: Chrome 2: Black	W: white B: black	R: red W: white	

Optional styling features such as bezels, ranges, custom dials and pointer colors are available by contacting: sales@sxhzelect.com . For matched temperature sensors please see Page: 37

How to order

Product	Indicating Range	Face	Voltage	Bezel
Electrical Temperature 52mm	°F □ □	White □ Black □ Other □	12V 🗆 24V 🗆	Black Chrome
<u>aaa</u> ∼x <u>xx</u> Temperature		<u>aaa</u>	(aaa +xxx)/2	xxx
Ohms (Tolerance)		Ω +	Ω +	Ω +

Packaging & Outside Dimensions

Each is packed in a white paper box with transparent PVC window to show the face. 50 units in a carton, measuring 52cm*52cm*44cm. Gross weight: 14 kgs Net wet: 13 kgs Outside dimensions are the same as electrical fuel level meter. Please refer to Page: 6

1.6 Electrical Voltage Meter & Amperage Meter



All the voltage meters listed here are with LED backlit illumination.

All the amperage meters listed here are internal shunted.



Optional styling features such as bezels, ranges, custom dials and pointer colors are available by contacting: sales@sxhzelect.com. For the outside dimensions please refer to Page: $\underline{6}$

2.1 Battery State-of-discharge Indicator



Model HT-DLB is ideally suited for lead acid battery-powered vehicles that require a display function only.

- The HT0623 is recommended for industrial and electric vehicles that can be disconnected from or remain connected to their batteries during the charge cycle.
- The HT0624 is recommended for electric fork lift trucks/stackers or recreational vehicles that remain connected to their batteries during the charge cycles. Units so configured have an undefeatable memory that holds the state of charge of the battery when disconnected.



Technical Specifications

Electrical

P.C.	Operating Voltage Range (±25%)	Operatin Nominal	g Current Maximum	Power Co Nominal	nsumption Maximum	Indicating Range	Tolerance
1	DC 9V~15V	25 mA	30 mA	0.30 W	0.36 W	10.38V~12.32V	±0.13 V
2	DC18V~30V	25 mA	30 mA	0.60 W	0.72 W	20.76V~24.65V	±0.25 V
3	DC27V~45V	25 mA	30 mA	0.90 W	1.08 W	31.14V~36.98V	±0.40 V
4	DC36V~60V	25 mA	30 mA	1.20 W	1.44 W	41.52V~49.31V	±0.50 V
7	DC54V~90V	18 mA	22 mA	1.30 W	1.58 W	62.28V~73.95V	±0.75 V
8	DC60V~100V	18 mA	22 mA	1.44 W	1.76 W	69.19V~82.17V	±0.80 V

Mechanical

Display: 10-digit LED

Case Specifications: HT0623/HT0624

Bezel shape: Round Bezel Material: Alum. Anodzd. (Blk)

Lens Material: Glass Case Material: ABS (Black)

Terminals: 3/16" Faston Mounting: U-bracket

Max Pins: 4 Panel Cutout (mm/in): Φ52mm/Φ2-1/16"

HT0624F / HT0624H

Bezel Shape: Rectagular/Hexagon Case Material: ABS (Black)

Termianals: 3/16" Faston Max Pins: 4

Pannel Cutout: 36*24mm Mounting: with mounting holes on the face

Other subassembly:

Mounting nut: HEX SS 2 pcs Flat washer: SS 2 pcs

Environmental

Temperature

Operating: -40 $^{\circ}$ C to +85 $^{\circ}$ C Storage: -50 $^{\circ}$ C to +90 $^{\circ}$ C

Mumidity

95% RH (Non Condensing) at 38 °C

Installation

			_
Pin 1	Pin 2	0 1	2 0
Battery +	Battery -		
Pin 3	Pin 4	0 4	3 0
LED enable:	Relay+ cut-off output @ battery	0 4	3 0
Connect to	empty state.		
Battery+ via	(HT0624: OP=Battery volts)		
switch	(HT0624H/F: OP=+4.5V)		

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Operation



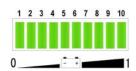
Display

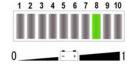
HT0623

- As the battery's state of charge rise or decreases, lighted LEDs rise or decrease instantly, LED switched off from right to left.
- LEDs No. 3~10 are shut off, and No1 is lighted No.2 flashes, indicating "energy reserve".
- Both No. 1 & 2 flash by turns, indicating "empty", and new battery is needed to replace old one

HT0624 & HT0624F/H

- Only when the battery is properly charged is the No. 10 LED (First LED from right) lighted.
- As the battery's state of charge decreases, successive LEDs light up, only one at a time. Each LED reflects after 160 seconds to filter error data caused by instantaneous voltage fluctuation.
- LED No. 2 flashes, indicating "energy reserve"
- When No. 1 & 2 flash alternately, they indicate "empty", new battery is needed to replace old one.





Notes

HT0623 shows battery state of discharged instantaneously.

HT0624 & HT0624F/H

When battery is swapped: Open Circuit Reset

"Menmory" will save the previous state-of-charge if connected to a battery that is not fully charged.

If the swapped battery is fully charged, menmorized state shows for 0.5 seconds and switched to fully charged state.

When instrument remains attached to battery during charging: High Voltage Reset

Reset happens only when battery voltage remain high above proper voltage level for a continous 6 minutes.

If instrument detects the state-of-charge is lower than memorized state, it works in the way as shown in affixed table-1.

Manufacturing default: Fully charged

Model Encodement

HT-DLB	Mold	Voltage	Volts per cell	LED Color
HT062	 3: Indicates instantaneouse battery voltage 4: Round, One LED shows battery state-of-discharge 4F: Rectangular, one LED shows battery state-of-discharge 4H: Hexagon one LED shows battery state-of-discharge 	1: 12V 2: 24V 3: 36V 4: 48V 7: 72V 8: 80V 5: 12V/24V	C: 2.04V at full 1.73V at empty (Customized setting is available.)	R: all in red G: all in green T: 1 red 2 yellow 7 green

Optional styling features such as bezels, detecting voltage ranges are available by contacting: sales@sxhzelect.com.

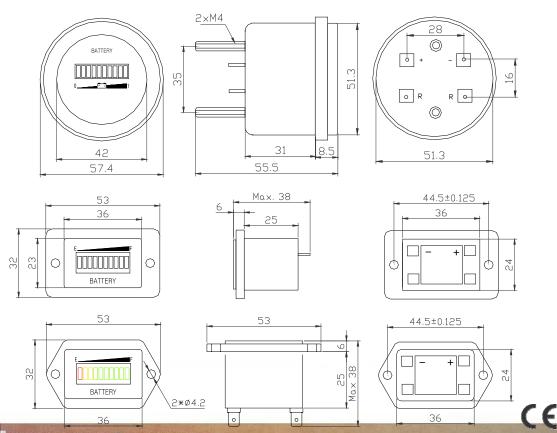
Reference Data Sheet



Table 1

P.N.	Volts	1#2#	2#	3#	4#	ŧ	5#	6#	7#	8#	£	9#		10#	HVR
HT0624-1	12V	≤10.38	10.38~10.60	10.60~ 10.82	10.8 11.0		11.03~ 11.25	11.25~ 11.46	11.46 [~] 11.68	11.6 11.8		11.89 12.3		≥12.32	13.76
HT0624-2	24V	≤20.76	20.76~21.19	21.19~ 21.63	21.6 22.0		22.06~ 22.49	22.49~ 22.92	22.92~ 23.36			23.79 24.6		≥24.65	27.2
HT0624-3	36V	≤31.14	31.14~31.79	31.79~ 32.45	32.4 33.0		33.09~ 33.74	33.74~ 34.38	34.38 [~] 35.04	35.0 35.6		35.69 36.9		≥36.98	40.8
HT0624-4	48V	≤41.52	41.52~42.39	42.39~ 43.25	43.2 44.1		44.12~ 44.98	44.98~ 45.85	45.85 ⁻ 46.71			47.58 49.3		≥49.31	54.4
HT0624-7	72V	≤62.28	62.28~63.57	63.57~ 64.87	64.8 66.1		66.11~ 67.40	67.40~ 68.70	68.70 [~] 69.99	69.9 71.2		71.29 73.9		≥73.95	81.6
HT0624-8	80V	≤69.20	69.20~70.63	70.63~ 72.08	72.0 73.		73.45~ 74.89	74.89~ 76.33	76.33~ 77.77			79.2′ 82.1		≥82.17	90.58
Relay		off	On	On	Or	n	On	On	On	Or	ı	On		On	
LED Sta		Flash by turns at 1Hz (0.7s on, 0.3s off)	1Hz (0.7s	U	Light	ted L	Lighted	Lighted	Lighted	d Light	ted	Lighte	ed	Lighted	High voltage
LED switch-	Decre ase	160 s	160	s 1	60s	160	s 16	0 s 1	60s 1	60 s	16	0 s		160 s	reset
over time	Incre ase	N/A	N/A	A 1	N/A	N/A	A N	/A I	N/A	N/A	N	/A		1s	

Outside Dimensions



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2.2 Hour Meter



SHAOXING HUAZHEN's hour meter is designed for a wide variety of industrial and commercial applications, including scheduled maintenance, warranty and leasing for medical equipment, transport and industrial vehicles and other industrial equipment. They are designed with solid state memory that retains reading when power is off.

2.2.1 LCD Hour Meter

Features

- Standard operating voltage of SHAOXING HUAZHEN's round LCD hour meter is 9V-80V DC/AC and rectangular hour meter is 9V-32V DC/AC. Both models have reversed connection protection.
- LCD functions self-test when powered on, each digit displaying Eight for one second.
- Flashing hourglass icon indicates when the hour meter is accumulating time.
- Exceptional reliability due to nonvolatile memory (EEPROM), which remains data for 25 years.
- Low power consumption
- © CE certificated.

Technical Specifications

Electrical

Current consumption: < 10mA Accuracy: $\pm 0.1\%$

Mechanical

Display: 6-digit LCD, 5mm high Range & Resolution: 99999.9 Hours

Case Specifications:

Bezel shape: Round, step type Bezel Material: Alum. Anodzd. (Blk) or stainless steel

Lens Material: Glass Case Material: ABS (Black)

Panel Cutout (mm/in): Φ52mm/Φ2-1/16" Mounting: stainless steel U-bracket

Terminals: 3/16" Faston Max Pins: 4 Airproof: completely sealed

Environment

Temperature:

Operating: -40° C to $+85^{\circ}$ C Storage: -50° C to $+90^{\circ}$ C

Humidity: 95% RH (Non Condensing) at 38 °C

Shock & Vibration: Meets SAEJ 1378, work well under vibration of 1∼8g's,10~75Hz

Installation

Pin 1	Pin 2	Pin 3*	Pin 4*
+	-	С	R
Power +	Power -	Control pin / Input signal	Reset (Empty)

Operation

Note: All digits display 8 for 1 second at power-up.

To Display:

2-Wire hour meter displays and accumulates hours only when powered

Typical application: Pin 1 to ignition in a vehicle or switch in equipment and Pin 2 to grounding.

3-Wire hour meter with control pin displays recorded time, and begins to count hours when control pin is powered.

Apply DC+ or AC hot to pin + and DC- or AC neutral to pin –, the display is activated at this point but the elapsed time will not be accumulated until a signal is applied to pin 3.

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Apply DC+ or AC hot to pin + and DC- or AC neutral to pin –, the display is activated at this point but the elapsed time will not be accumulated until a signal is applied to pin 3.

Note for proper operation: Power must be applied to pins + and - before or coincident with pin 3.

To operate: Apply DC+ or AC hot to pin 3 for 1/2 second minimum, the accumulation of elapsed time is indicated by the flashing hourglass icon. If power (pin+&-) has been applied for 6 seconds minimum, the accumulated time will be stored in non-volatile memory (EEPROM) when power is removed.

4-Wire hour meter follows the same instructions as to 3-Wire hour meter, and has one reset pin available.

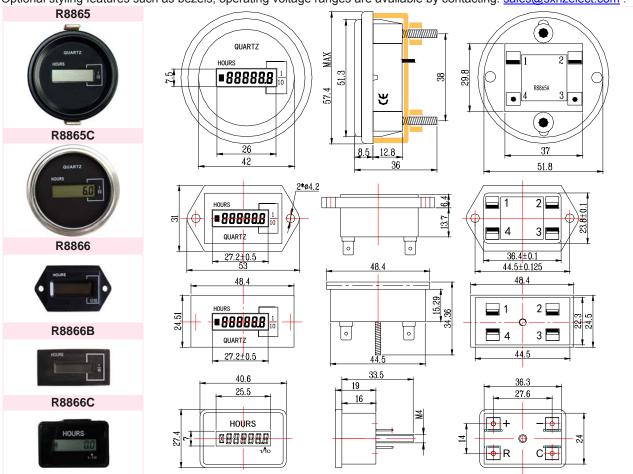
Typical application: Pin 4 is connected to a reset switch, by which the operator can clear old memory in the hour meter.

Model Encodement

(For packed R886 series)

Hour meter	Appearance	Bezel
	5: Round	1: Bright stainless steel ring
R886: LCD hour meter	6: Rectangular/Hexagon	2: Black Alum. Anodzd ring
	7: Combining battery indicator	0: No ring

Optional styling features such as bezels, operating voltage ranges are available by contacting: sales@sxhzelect.com.



2.2.2 Battery Indicator and Hour Meter comb



SHAOXING HUAZHEN'S R8867 is a combination of battery indicator and solid state hour meter, housed in a single 52mm diameter case and void of moving parts. The two-in-one unit provides exceptional reliability even in severe operating conditions. This type is suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance, scheduling, warranty validation and renting/leasing. Compact size ideal for assemblies; no moving parts or motor driven digits to wear out; non-volatile memory can be powered down and not lose hours counted; and counting starts with enable connection and counts display when power is applied to the meter.



- R8867LYB is recommended for industrial and commercial applications.
- R8867A is multi-volts & adjustable, recommended for all electrically powered vehicles.

Battery Meter Features

- Tri-color 10-bar LED displays state of discharge (7 green, 2 yellow, 1 red LEDs)
- Only when battery is properly charged and keeps at the high voltage (HVR) over 6 minutes, is the right most LED lighted.
- As battery's state-of-charge decreases, successive LED lights up, one at a time, 160s after detecting state low voltage.
- The Led (#3, yellow) is lighted, indicating "Energy reserve" (70% discharged).
- Flashing yellow signals "energy reserve" alarm at 80% discharged.
- Double flashing red and yellow LEDs signal "empty" alarm at 90% discharged, and relay lockout at the same time.
- When battery sets are swapped and new battery voltage equals to OCR, the right most LED #10 is lighted.

Hour meter features

- Records and displays up to 99.999.9 hours on LED
- Mour meter LCD remains on as long as battery is connected.
- Stores latest total in EEPROM nonvolatile memory, without need of external power or internal battery.
- Accuracy of 0.01% throughout its operating temperature range.
- Control pin connected, hour-glass icon flashes and hour meter accumulates time.

Electrical

Nominal	Operating Current		Operating Current Power Consumption		Battery Indicator		
voltage	Nominal	Maximum	Nominal Maximum		R8867-LYB Range	Tolerance	
12	25 mA	30 mA	0.30 W	0.36 W	10.38V~12.32V	$\pm 0.13 V$	
24	25 mA	30 mA	0.60 W	0.72 W	20.76V~24.65V	\pm 0.25V	
36	25 mA	30 mA	0.90 W	1.08 W	31.14V~36.98V	\pm 0.40V	
48	25 mA	30 mA	1.20 W	1.44 W	41.52V~49.31V	\pm 0.50V	
72	18 mA	22 mA	1.30 W	1.58 W	62.28V~73.95V	\pm 0.75V	
80	18 mA	22 mA	1.44 W	1.76W	69.19V~82.17V	\pm 0.80V	

Mechanical

Display—Battery state-of-charge: 10-bar, tri-color LED

Hour meter: 6-digit LCD, 5mm high

Resolution—Hour meter: 99,999.9 hours

Case specifications—Round, step type bezel, maximum 4 pins, 3/16" terminals, stainless steel U-shape mounting bracket, with washers(2), springs(2) and nuts(2), slip-on connectors(4), isolated sleeves(4).

Environmental

Temperature—*Operating*:-40°C to 85°C

<u>Storage</u>: -50°C to 90°C

Humidity—max.95% RH (Non condensing) @ 38℃

Mechanical Shock—SAE J 1378, 55g

Mechanical Vibration—SAE J 1378, 20g

Panel Cutout—\(\sigma 52mm, 2-1/16\)"

w sxhzelect com

Installation



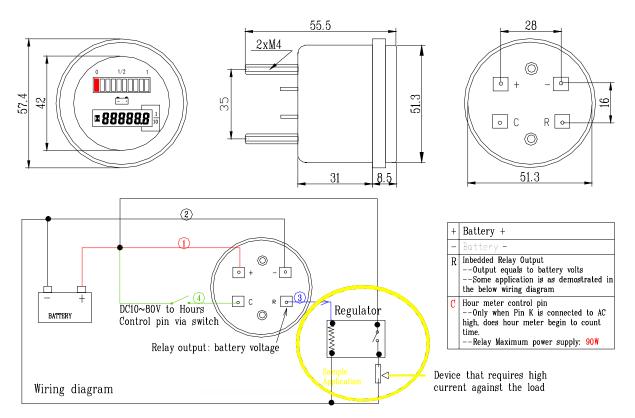
R8867-LYB

	Din #	1	2		3		4
Pin #	Battery +	Battery -	Reset	Empty	Relay	Control	
	Wiring	hour meter tes	state-of-charge,	voltage. Switched	Hour meter can't be reset	Relay output =battery voltage	Connect to high voltage. Switched on, hour meter begins to count time. Switched off, hour meter shows memorized hours.

Model Encodement

R	R8867-LYB Series: R8867-LYB-PG <u>XX-X</u>										
					Terminals	Voltage	Volt per cell				
1	2	3	4	Functions							
P	G	S	С	Hour meter with	reset & control pins (4 pins)	1: 12V			1 : 12V		
P	G E C Hour meter with control pin (3 pins)				control pin (3 pins)	2 : 24V	Ctandard factory actting:				
P	G	R	С	With hour mete over discharge	er control pin, and relay pin to avoid battery (4 pins)	3 : 36V 4 : 48V	Standard factory setting: 2.04 at full, 1.73 at empty				
P	P: Battery + G: Battery -				G: Battery -	7 : 72V	Customized setting is available.				
S	S: Hour meter reset C: Hour meter control				C: Hour meter control	8 : 80V					
R	R: Relay pin (Output battery voltage)										

Outside Dimensions



Installation:

R8867 A

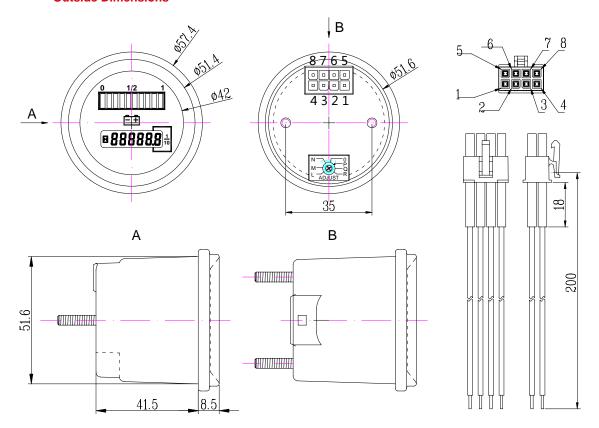


Pin#	1	2	3&4	5	6	7	8
Wire Color	White	Yellow	Green	Black	Blue	Red	Brown
Function	Hour meter counting enable	LED display & LCD work enable	Relay contacts rated 1mA	Instrument negative	Hour meter counting enable	Instrument positive (low volts)	Instrument positive (high volts)
Connect to	Low level	Power+	Lockout device	Battery-	High level	Battery+ (Low rating volts)	Battery+ (High rating volts)

Model Encodement

R8867 A Series:								
P/N	Voltage	Adjusting range						
R8867A-12/24	DC12/24V							
R8867A-24/48	DC24/48V	Empty state can be calibrated from						
R8867A-36/48	DC36/48V	1.60-1.86VPC						
R8867A-48/72	DC48/72V	Factory default settings@1.73VPC						
R8867A-72/80	DC72/80V							

Outside Dimensions



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2.2.3 Hour Meter LCD Module



SHAOXING HUAZHEN's hour meter display module is ideally suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance, scheduling, warranty validation and renting/leasing. Compact size ideal for electronic subassemblies; no moving parts or motor driven digits to wear out; non-volatile memory can be powered down and not lose hours counted; and counting starts with enable connection and counts display when power is applied to the meter.

Mechanical

Display: 6 digit LCD, height of digit: 5mm or LCD outside height: 7mm high.

Range & Resolution: 99999.9 hours

Accuracy Counters: ±0.1% Operating Voltage: 9-58VDC

Environmental

Operating Temperature: -35°C to +80°C Storage Temperature: -40°C to +85°C

Humidity: 95%, non-condensing at 38°C

Mechanical Shock: SAE J 1378 Mechanical Vibration: SAE J 1378

Operation

Operating mode: Accumulative

Memory: Exceptional reliability due to non-volatile (EEPROM) memory which can retain data for 25+ years

Mounting type: Panel/PCB mount

Display: non-backlit, operating test before starting work, and remind function during counter

Resettable option: Reset Pin connected to positive power for a minimum of 250ms, it can be reset

Power interruptions test: 10 times interruption within 10 seconds, power off duration time is 100 ms

Installation

When close a circuit between pin "P"& pin "N", LCD shows numbers and hourglass figure as in the front view picture for a second, and then shows Zero (0.0) to be ready for count.

When connect pin "I" to the positive pole of power (DC 12V), it begins to count, and the hourglass twinkles. When shutoff, it stops counting.

Pin "R" is usually empty, because when it connects to the positive pole of power for 0.5 second, all counts will be cleared.



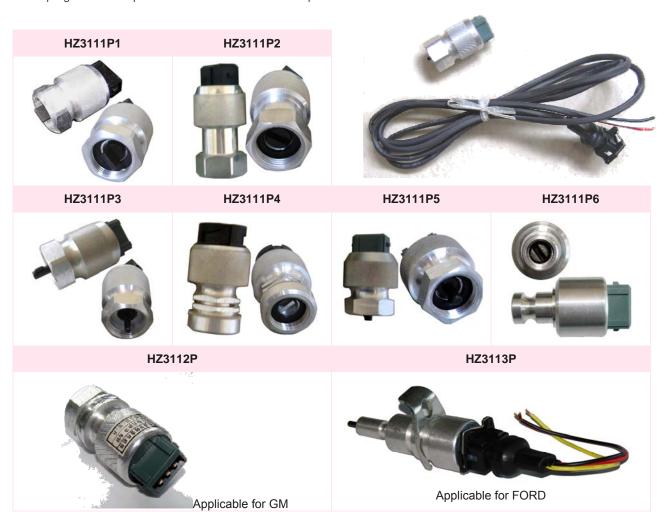


SHAOXING HUAZHEN's sensors are designed to work best with our electrical gauges and instrument cluster gauges. They also work with many gauges made by competitors. Contact sales@Sxhzelect.com for interchange information. When installing gauge and sensor, we recommend both components be made by SHAOXING HUAZHEN to insure the most accurate readings.

3.1 Speed sensor

Hall-effect 8 pulse speed sensor.

For programmable speedometers and other electric speedometers in our instrument clusters



3.2 Rotational Speed Sensor

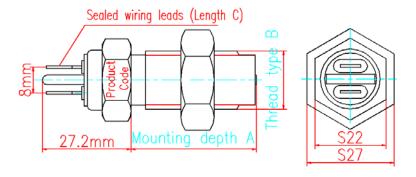


Inductive/Magnetic pickup rotational speed sensor

For programmable tachometer and other electrical tachometers in our instrument clusters



Outside dimensions



For customized features A/B/C as shown in the dwg please contact: sales@sxhzelect.com.

3.3 Fuel Level Sensor



Match with our electrical fuel level gauge, and other fuel gauges in our instrument clusters

3.3.1 Floater type fuel level sensor 37-RG118A4

37-RG118A4 sensors put out resistance signals and matches with our electrical gauge and other gauges in our instrument clusters.

Installation Instructions

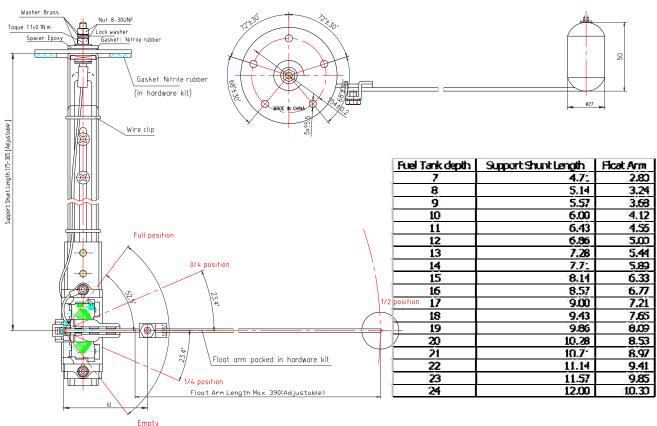
Sender to be fitted to negative earth vehicles only Disconnect the battery cable prior to installation

Before mounting

When mounting sender in fuel tank, first remove the tank, the tank should be emptied, cleaned and dried before preceding.

Adjusting sender depth

Measure tank depth.



Refer to chart on reverse to determine proper length of both sender shaft and float arm length.



Mounting

Insert the sender float first into the tank and mount the sender using the five mounting holes in the mounting flange.

IMPORTANT

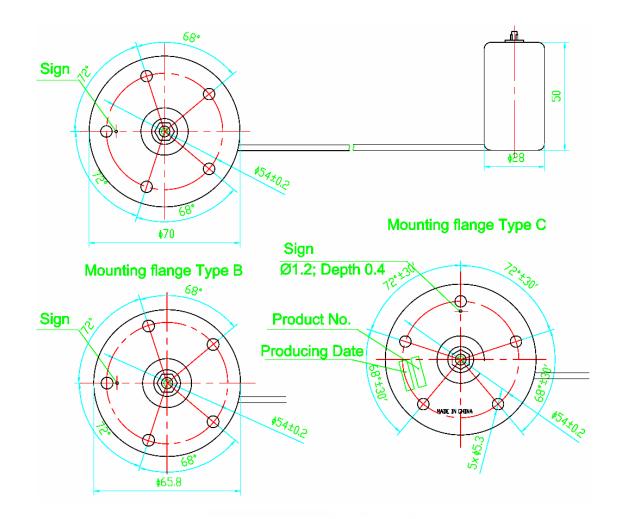
- Keep all wires away from hot or moving parts.
- Wear Safety Glasses.
- Power off ignition at the time of installation.

How to order

SHAOXING HUAZHEN's fuel level sensors have mainly 3 types of mounting flanges. Make sure you choose the right type of mounting flange to match your fuel tank mounting holes.

Wiring

Connect sender wire to the provided stud terminal located at the top of the sender mounting flange.



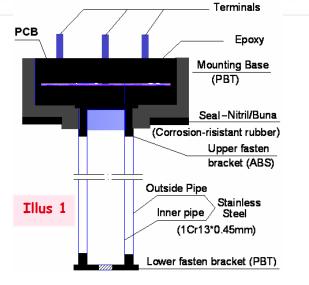
3.3.2 Capacitive fuel level sensor 37-RG



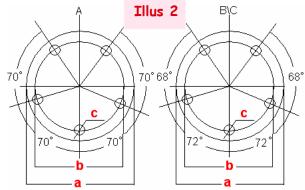
Applications

37-RG123YT capacitive fuel level sensor is an electrical fuel sender, specially designed for adverse environment. It takes advantage of integrated structure, without moving parts (See illus 1), which makes it more endurable and reliable. All electronic components comply to regulations on automobile electronic components. It's superior to other fuel sensors especially when applied to large fuel tank and mobile machinery shop.

37-RG123YT series fuel sender has steel pipe acting as a probe, collecting data on fuel level state. The data is processed by the electronic module from counting, linearization to amplification. The output signals can drive cross coil gauge, step motor gauge, digital fuel gauge or central MCU in automobile or marine vehicles.



Features



	a	b	C-ID of 5 holes
А	∲ 75max	∲ 56	∲ 5.5
В	∲ 77max	∳ 58	∮ 5.5
С	ф 75max	ф 54	ф 5.5
66A	∮ 78max	∮ 66	∮ 5.5

- Output: voltage signal or analogue resistance signal
- Available to detect depth of petrol or diesel without conducting medium (e.g. ethanol petrol X)
- Directly connect to fuel gauge, or with plug: 3 connection bolts (R~Signal; -~Grounded; +~Power) The connection can be customized made in the form of plug.
- Easy to mount with standard four kinds of mounting flange as listed here (See illus 2).
- Low power consumption, operation amperage lower than 20mA.
- Transient high tension: resist ±300V/1mS Pulse
- Electromagnetic compatibility (EMC): not affected by other electronic components, likewise, no interference pulse to other electronic components.

37-RG Capacitive Fuel Level Sensor

Analog Resistance at empty and full (E)0.1V~(F)3V Voltage (E)1V~(F)5V Standard 12VDC (10-15V) Mounting flange type 24VDC (22-30V) **Settings** Type A **Terminals type** Type B Type C Stud Tank depth Plua Type 66A A-U From 7"-27' 37-RG т

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Data Sheet

Items	Property	Remarks
Operation voltage	12V-series: DC10-15V 24V-series: DC22-30V	
Operation amperage	≤20mA	
Output	Linear Voltage output	
Tolerance	±3%	
Voltage alter	DC10V-15V/DC22V-30V output alter ≤3%	
Electrical property under transient voltage	Resist: ±300V/1mS Pulse	
EMC	Not affected by other electrical appliance in vehicle, without interference pulse to others.	
Operating Temp.	-40°C -85°C	
Detecting	Pure gasoline or diesel oil	Not for ethanol petrol
Mounting flange	Comply to national standard	
Sensing depth	According to customer's fuel tank.	
Comply to	QC/T727-2004	

Notes:

The sensor is highly recommended to connect with MCU directly. Any capacitor or resistors in between the sensor and processor may lead to misreading of the sensor output.

How to order

No.	Item	Complete below	information to orde	er customized capaci	tive fuel sensor		
1	Operating Voltage	DC	12V	DC24V			
1	Operating Voltage						
2 Lengt	Longth	Probe to	tal length	Sensing length			
2	Length		inch/mm	Inch/mm			
3	Mounting flange	Type A	Type B	Type C	Type 66A		
3	dimensions						
4	Sensor output signal	Empty	· Full	Empty Full			
4	(Voltage)	0.1 – 3.	.0 Volts	<u>0.1 – 3.0</u> Volts or <u>0.1-5.0</u> Volts			

Remarks:

- 1. Please choose with " \checkmark " under Item No. 1 & 3 according to the real working condition of the fuel sensor.
- 2. Please write down length with measuring unit under item No. 2. Pay attention that 3cm~5cm should be reduced from both of the real length.







3.4.1 Pressure Sensor for Electrical Gauge

Three kinds of pressure sensors are available:

3311-P



3311-P series are grounded pressure sensors, with one terminal to the gauge, and the ground connection is made through the body of the sensor.

3311-PB



3311-PB series are grounded pressure sensor with two terminals /dual station, one is for a pressure gauge and the other is for pressure alarm.

3312-P



3312-P isolated series pressure senders, with two terminals. One is to connect to the gauge and the other is for a ground connection.

Features

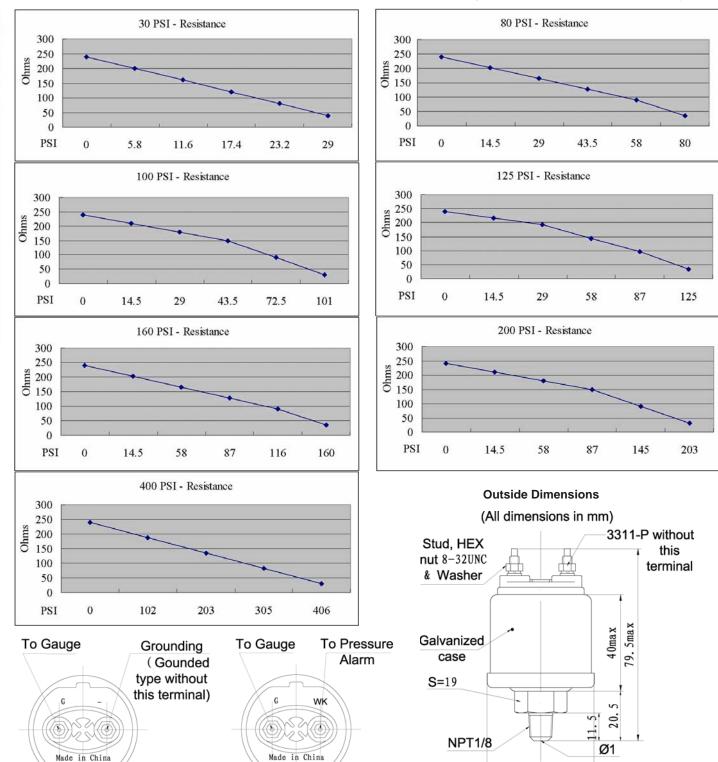
- No leak under 450 PSI (3 MPa) for 1 minute, destruct pressure higher than 580 PSI (4 MPa).
- Maximum operating current: 120mA.
- Operating temperature: -40°C to 150°C.
- Life cycle: 1 million times or 30,000 miles.
- Other specifications complies to QC/T8-1992

Data Sheet

Type	Range	Parameter						
Ground		Pressure (PSI)	0	5.8	11.6	17.5	23	30
Isolated	0∼30Psi	ohms	240±2	200±3	160±3	120±5	180±10	40^{+20}_{-5}
Ground		Pressure (PSI)	0	14.5	29	43.5	58	80
Isolated	0∼80Psi	ohms	240±2	202±3	165±3	127±5	90±10	33.6_{-5}^{+20}
Ground		Pressure (PSI)	0	14.5	29	43.5	72.5	100
Isolated	o∼100Psi	ohms	240±2	210±3	180±3	150±5	90±10	29.8_{-5}^{+20}
Ground		Pressure (PSI)	0	14.5	29	58	87	125
Isolated	0∼125Psi	ohms	$240\!\pm\!2$	216±3	192±3	144±5	96±10	33.4_{-5}^{+20}
Ground		Pressure (PSI)	0	29	58	87	116	160
Isolated	0∼160Psi	ohms	240±2	202±3	165±3	127±5	90±10	33.6_{-5}^{+20}
Ground		Pressure (PSI)	0	29	58	87	145	200
Isolated	0~200Psi	ohms	240±2	210±3	180±3	150±5	90±10	29.8_{-5}^{+20}
Ground		Pressure (PSI)	0	58	102	203	305	406
Isolated	0∼400Psi	ohms	240±2	210±3	187±3	135±3	82±10	29.8_{-5}^{+20}



Characteristic curves: Test the resistance under 20°C when the pressure falling down, and knock the shell of the body.



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3311-P/3312-P

3312-PB

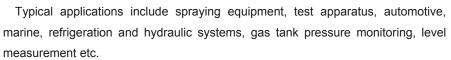
Ø44.5max

3.4.2 Electrical Pressure Transducer



Applications

3313-EP & 3313EPT electrical pressure transducer is specifically designed for pressure measurements lower than 150PSI. 3313-EP uses stainless steel housing and ceramic diaphragm withstanding exposure to compatible liquid and gaseous media. 3313E-EPT uses brass housing and stainless steel diaphragm withstanding exposure to compatible liquid & gaseous media. Excited by DC 5V, the transducer provides a DC 0.5 to 4.5 V linear signal output proportional to pressure.





Features

- Superior long term stability
- EMI resistant
- Low power consumption
- Linear amplified output

Standard Specifications

- Nominal voltage: 5VDC (4.75-5.25VDC)
- Nominal current: 4mA Max. at 5VDC
- Detecting range :

Gauge pressure: 0-1MPa; 0-150PSI; 0-100PSI; Absolute pressure: 0-30PSIA; 0-50PSIA; 0-75PSIA

- Operating temperature: -20 °C ~125 °C;
- Storage temperature: -40 ℃~150 ℃
- Linearity: 0.3%FS
- Zero Stability: <=3%FS</p>
- Proof Pressure: 1.5xFS

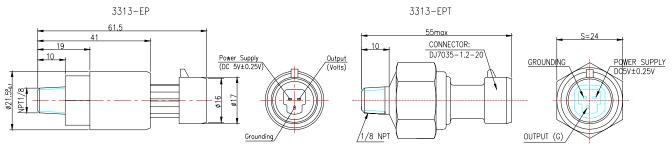
- Temperature compensated
- Over-voltage, reverse polarity & short circuit protection
- Lifetime in millions of cycles
- Outstanding shock & vibration tolerance
 - Burst pressure: 2xFS
 - Mounting torque: 20Nm
 - Output voltage (Ratio metric)
 - 0.5 ± 0.05 VDC at 0 PSI(A)
 - 4.5±0.05VDC at Full scale

Temp Error Band(-20 \sim 125 $^{\circ}$ C), \pm 1% FS

Temp Error Band (Min. to Max. $^{\circ}$ C), $\pm 3\%$ FS

- Vibration: 10G's peak to peak sinusoida
- Sock: 75G's, 1/2 sine wave
- With matched connector and wiring leads

Outside dimensions

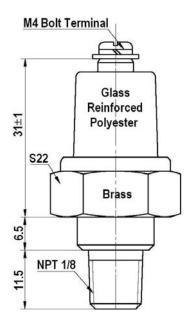


3.5 Pressure Switch



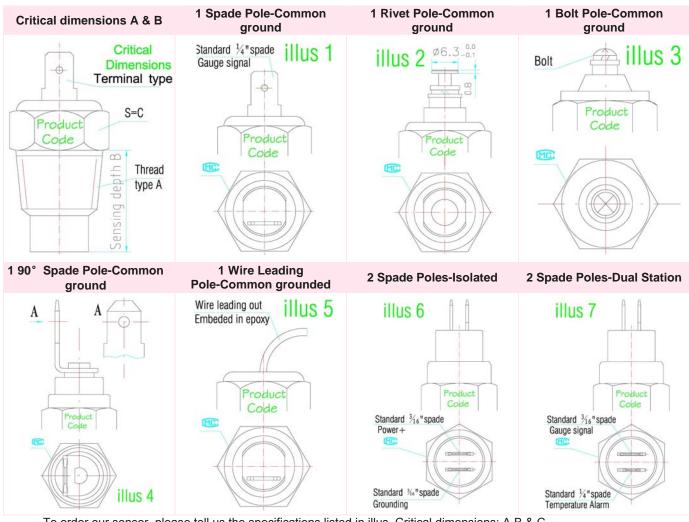
Grounded type pressure switch provide an economical and reliable choice for a multitude of pressure switch applications, especially ideal for most engine, brake, hydraulic and air system applications. Specified set points may be customized to meet customer requirements. Standard switch has only one terminal and uses its body for grounding.

Vacuum pressure switch 7PSI 3322-PV normally closed Normally Open switch 10PSI normally open 3321-P









To order our sensor, please tell us the specifications listed in illus. Critical dimensions: A B & C

3901 Temperature Sensor 240-33 Ohms

A Thread type 1/2" NPT **Terminal types Standard** 1/4" NPT Common ground, one spade 1/8" NPT **B Sensing depth Settings** 3/8" NPT Common ground, one rivet pole 4 M14x1.5 Common ground, one bolt pole 3 20mm S HEX Nut side Common ground, one 90 degree pole 22.5mm 4 2 Common ground, one wire 3 23mm 19mm 5 Isolated(floating ground), two spades 4 26mm 22mm 6 Common ground, two spades, one for 5 38.5mm (not so important gauge and the other for alarm 6 42.5mm as above.) 3901-9 2 2

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3.7 Temperature Switch



Temperature switch is a normally open circuit that closed at a certain alarm temperature.

It has similar dimensions as temperature sensor, and can be commonly grounded or isolated grounded.

To order our sensor, please tell us the specifications listed in illus. Critical dimensions: A B & C



3902 Te	mpera	ature Switch						
	A	Thread type)					
Standard	1 2	1/2" NPT 1/4" NPT		Terminal types				
Settings	3 4	1/8" NPT 3/8" NPT	1 2	Common ground, one spade Common ground, one rivet pole		B Sensin	g de	pth
	5	M14x1.5	3 4	Common ground, one bolt pole Common ground, one 90 degree pole	1 2	20mm 22.5mm		S HEX Nut side
			6	Isolated(floating ground), two spades	3 4 5	23mm 26mm 38.5mm	1 2	19mm 22mm (not so important as above.)
3901-	1		2		9		2	



3.8 Thermocouple

Thermocouple probes are of four types:

Exposed



Advantage Quick response to temperature Suitable for exhaust system which require high response speed

Disadvantage Poor mechanical strength

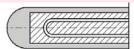
Separate & Connected



Advantage Quick response to temperature Stand pressure under 3.4*10MPa

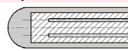
Disadvantage Cannot resist electromagnetic interference

Isolated



Advantage Long durability Resist outside electromagnetic interference Disadvantage Slower response speed than the above two types

Separated & Isolated



Advantage Long durability Resist electro-magnetic interference from outside or between

Disadvantage Slower response speed than the above two types

Thermocouple type and recommended working temperature

Components	Type	Product	Case	Diameter		operating temperature °C
	.) [-	Code	material		long hi-temp	Temporary hi-temp
		WRKK		0.25;	300	600
			GH3030 1Cr18Ni9Ti	0.5;1.0	500 800	900
				1.5;2.0;3.0		
NiOr NiCi	V			4.0;4.5;5.0	900	1000
NiCr-NiSi	K			6.0;8.0	1000	1100
				0.25; 0.5;1.0	300 400	600
				1.5;2.0	600	700
				3.0;4.0;4.5;5.0;6.0;8.0	800	900
						333
			GH3030	0.25; 0.5;1.0	300 500	600
				1.5;2.0;3.0	800	900
				4.0;4.5;5.0	900	1100
NiCrSi-NiSi	N	WRNK		6.0;8.0	1000	1200
141010114101	14		1Cr18Ni9Ti	0.25;	300	
				0.5;1.0	500	600
				1.5;2.0	600	700
				3.0;4.0;4.5;5.0;6.0;8.0	800	900
		WREK	1Cr18Ni9Ti	0.5;1.0	400	500
1110 O 111	Е			1.5;2.0;	500	600
NiCr-CuNi				3.0;4.0;4.5;5.0	600	700
				6.0;8.0	700	800
			1Cr18Ni9Ti	0.5;1.0	300	400
E. O. NE	J	WRJK		1.5;2.0;	400	500
Fe-CuNi				3.0;4.0;4.5;5.0	500	600
				6.0;8.0	600	700
				0.5;1.0	200	250
C. C. NI	_	MOTIC	4.C=4.0N:OT:	1.5;2.0;3.0;4.0		
Cu-CuNi	T	WRTK	1Cr18Ni9Ti	4.5;5.0	250	300
				6.0;8.0	300	1050
D+D+40 D+	0	MDOK	0110000	2.0;	1000	1050
PtRh10-Pt	S	WRSK	GH3030	3.0;4.0;4.5;5.0;6.0;8.0	1100	1200
PtRh13-Pt	R	WRRK	GH3030	2.0;	1000	1100
			2.10000	3.0;4.0;4.5;5.0;6.0;8.0	1100	1200
				2.0;	1000	1050
PtRh30-PtRh6	В	WRBK	GH3030	3.0;4.0;4.5;5.0;6.0;8.0	1100	1200
				0.0,4.0,4.0,0.0,0.0,0.0	1100	1200

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Model Encodement

		wodei En	codement					
Thermo	ocoup	ole Product co	de: W R	к □— []			
W : Pyrome	eter	R: Thermocoup	K: NiCr-I	NiSi T: Si-NiSi S: CuNi R	couple type Cu-CuNi : PtRh10-Pt : PtRh13-Pt : PtRh30-PtRh6		eathed ocouple	☐: couples (One couple not specified)
1: With 4: With 0: With 2: Splas 5: Wate 1: Expo	out fitt fixed nction out jui sh-pro er & pro obe ty osed omper ecisio e I	flange collar box nction box of junction boressure proof by pe: esating lead win level dimensions (n	5: W 1A: S 3: W 5: W 2: Separate type and lead to the second type and lead to the second type and lead to the second type and lead type an	Simplified (laterproof jug lated & con ength (for II: Grade diameter)	those without junct II φ(mm)×L(mm)(tota	solated tion box or	6: With str 1B: Simpl 4: Explosi 7: Explosi simplified)	ljustable thread collar rengthened bushing lified(with spring shield) on-proof junction box on & pressure proof box 4: Separated & isolated life life life life life life life life
601 Therr		material : (not uple WR : Thermocou		sans TOTTO	ivie II)			
andard ettings	N E J T S R	NiCr-NiSi NiCrSi-NiSi NiCr-CuNi Fe-CuNi Cu-CuNi PtRh10-Pt PtRh30-PtRh6	Without fi With fixed thread co	One coup ting method itting d bllar 0 ustable 1A bllar d 1B bllar ustable 2 llar 3 ngth- 4	le not specified)	g) 1 2 3 4 proof	: Probe ty Exposed Separated & connected Isolated Separated & isolated	/ : Compensating lead wire type and length (for those wit out junction box or simplified
3901-	WRK	к	-2	0		3		/2m I 3x7

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Dedicate

SHAOXING HUAZHEN's Catalog on automobile gauges and sensors is dedicated to all who have helped or have been helping us with self-giving support. They are:

Mr. Jiuwang Zhang

Mr. Kexiong Lee

Mr. Minjie Ma

Mr. Yongping Zhang

Mr. Wanping Zhang

Mr. Xiaoming Gao

Mr. Yuhua Ma

Ms. Younv Qian

Their advices and technical support motivate the birth of the catalog. In the near future, we will offer catalog on instrument clusters, marine gauges, and other products. Welcome the user provide your suggestions to help us improve it.

Contact: sales@sxhzelect.com

SHAOXING HUAZHEN Limited Warranty

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