

CS Fluxgate Current Sensor

VS High Precision Voltage Sensor



WeChat Official Account

Taking it as our mission to enhance manufacturing quality,
we aim to create a national brand in measurement and testing!

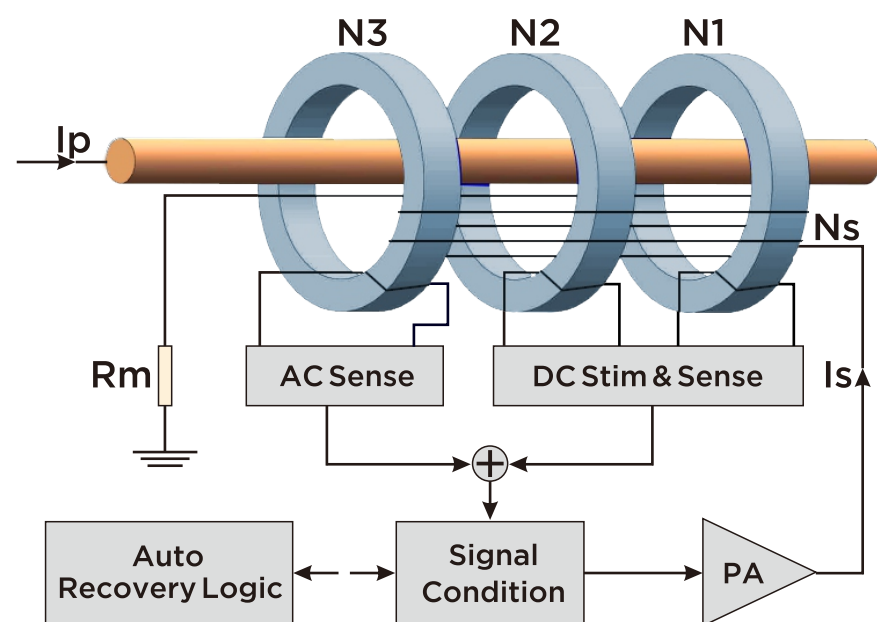


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CS Fluxgate Current Sensor

Product overview



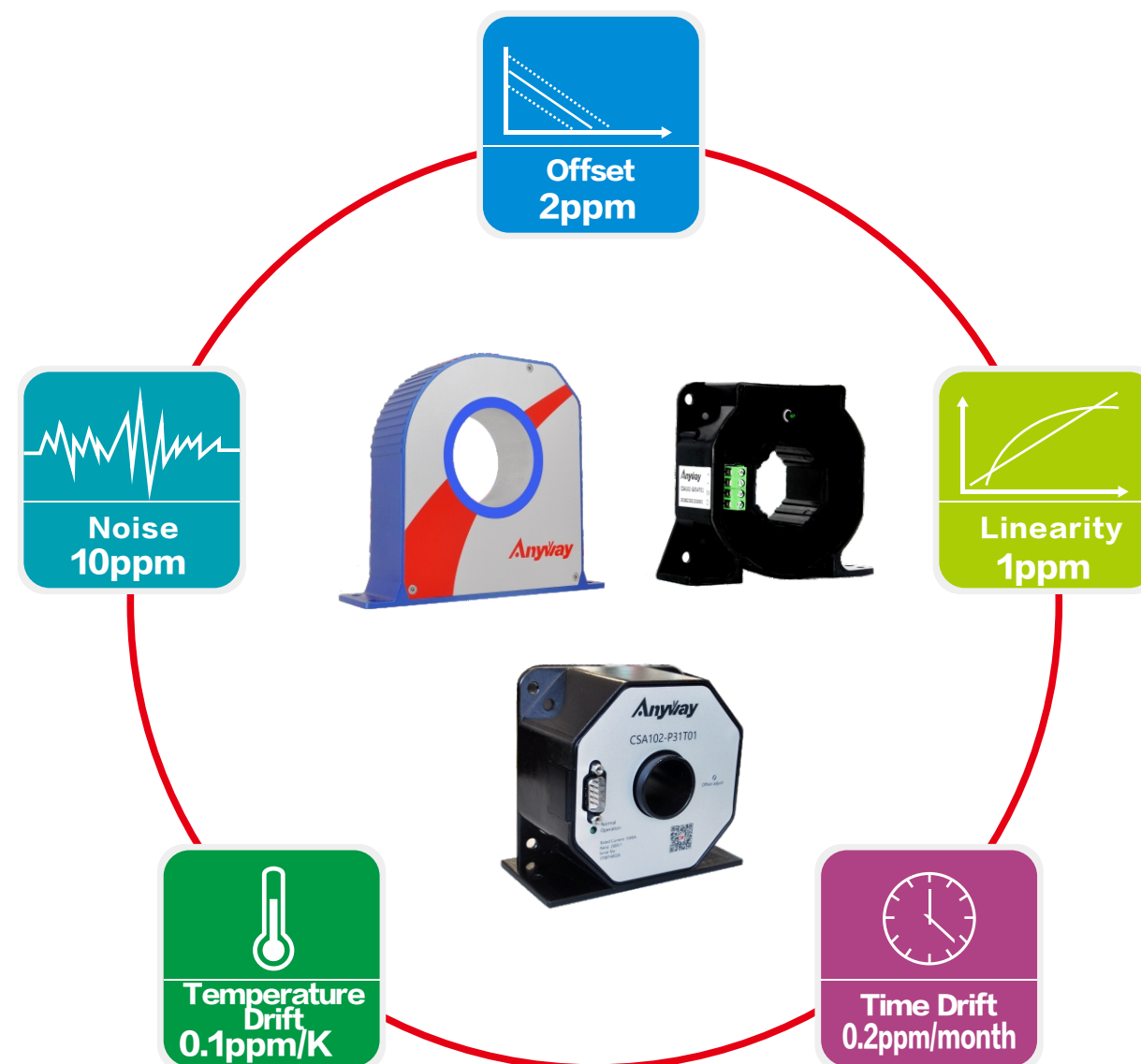
The CS fluxgate current sensor is a novel current sensor based on both magnetic modulation and magnetic balance principles. It utilizes the mechanism of multiple high-permeability cores alternately saturating under a saturated excitation current, transmitting the primary current to the secondary coil through a transformation ratio. The magnetic field generated by the compensation current output from the secondary coil balances with the magnetic field generated by the primary current, so the current in the secondary coil can accurately reflect the magnitude of the primary current. It can meet the high-precision measurement of current signals ranging from 1mA to 25kA with a bandwidth within 800kHz. Based on the ratio difference and angle difference indicators, the current sensor is divided into three types:

Project	G Type	P Type	J Type
Test Range	1mA ~2000Apk	100A~25000Apk	600A~4000Apk
Typical accuracy(FS)	200ppm~1000ppm	10ppm	1ppm
Bandwidth(-3dB)	30kHz~100kHz	5kHz~800kHz	100kHz~500kHz
Phase error@50Hz(°)	/	0.3438'	0.0344'
Diameter	12mm~60mm	28mm~250mm	30mm~90mm

Product features

01 Ultra-high precision

The main indicators affecting the accuracy of CS Fluxgate Current Sensor include linearity, offset, noise, temperature drift, and time drift.



02 Convenient Install

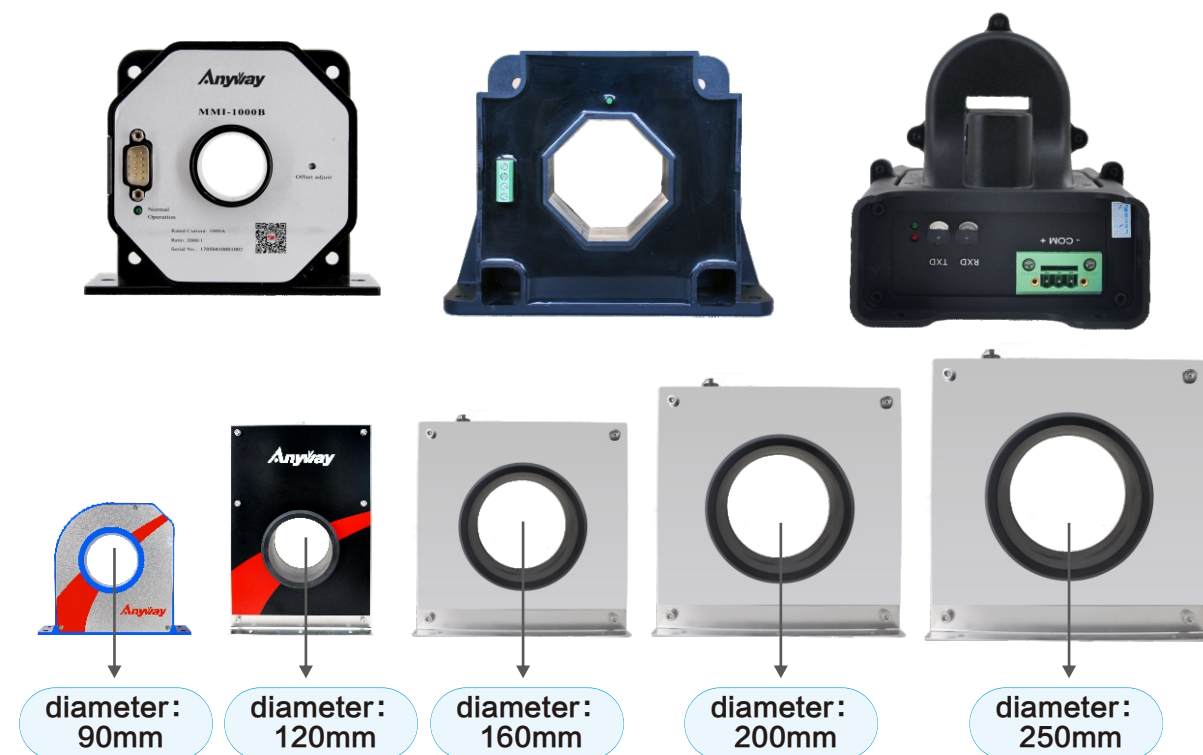
Separate structure

The working environment of large-current sensor products is characterized by complex electromagnetic conditions and high temperatures, which significantly affect the measurement accuracy of the products. By adopting a separate structure, the signal processing circuit system, which has high environmental requirements, can be independently installed in a suitable environment. The signal for front-end current measurement is the current signal induced by the coil, and there is no internal circuit, so it is minimally affected by the external environment. Therefore, adopting the separate structure greatly enhances the environmental adaptability and electromagnetic compatibility of the product.



varied through-hole diameters

The product design includes a variety of shapes and sizes of through-hole apertures, which can flexibly adapt to various primary side fluid measurements in industrial sites.



03 Parameter & Metrology

There are multiple factors that affect the measurement accuracy of current sensors, and it is not appropriate to promote the product's overall accuracy based on local optimal indicators, which could mislead consumers. Proposed by the Hunan Provincial Bureau of Technical Supervision and the National Metrology Station for Frequency Conversion Electric Energy Measuring Instruments, and jointly drafted by Hunan YINHE ELECTRIC Co., Ltd., Hunan Provincial Institute of Measurement and Testing, and the National University of Defense Technology, the "Frequency Conversion Electric Energy Measuring Instruments - Measuring Transmitters" DB43/T 879.1-2014 standard provides detailed specifications for the accuracy of current sensors applicable to "frequency conversion electric energy" testing. The aim is to guide customers in the rational selection of compatible instruments and equipment.

CS Zero Flux Current Sensors have a clear range of frequency limits, current limits, and angular difference indicators, with more rigorous nominal specifications, making it easier for users to select the appropriate model.



PRODUCT SELECTION

CS Fluxgate Current Sensor—Type J020(Accuracy:1ppm)

Ipn (A)	measurment(A)	Ratio	Output (mA)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band-width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
±600	±800	1000:1	±600	10	0.0344	500	1	1	±18~±24	30	CSA601-J020T01	
±1000	±1500	1000:1	±1000	10	0.0344	300	5	1	AC220	60	CSA102-J021T01	
±2000	±2500	2000:1	±1000	10	0.0344	50	5	1	AC220	60	CSA202-J021T01	
±4000	±4500	4000:1	±1000	10	0.0344	20	5	1	AC220	90	CSA402-J022T01	

CS Fluxgate Current Sensor—Type P030(Accuracy:10ppm)

Ipn (A)	measurment(A)	Ratio	Output (mA)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band-width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
±60	±120	600:1	±100	100	0.3438	800	35	2	±12~±15	28	CSA600-P030T01	
±100	±150	1000:1	±100	100	0.3438	300	20	2	±12~±15	28	CSA101-P030T02	
±200	±240	1000:1	±200	100	0.3438	300	10	2	±12~±15	28	CSA201-P030T01	
±400	±480	1000:1	±400	100	0.3438	300	10	2	±15~±18	28	CSA401-P030T01	
±600	±720	1000:1	±600	100	0.3438	300	10	2	±15~±18	28	CSA601-P030T01	
±800	±960	1500:1	±533.3	100	0.3438	200	10	2	±18~±24	38	CSA801-P032T01	
±1000	±1200	2000:1	±500	100	0.3438	200	10	2	±24	38	CSA102-P032T01	
±1500	±1800	2000:1	±750	100	0.3438	200	10	2	±24	38	CSA152-P032T01	

CS Fluxgate Current Sensor—Type P040(Integrated type, Accuracy:10ppm)

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 1000	± 1200	1000:1	± 1.0	100	0.3438	100	10	2	± 18	90	CSA102-P042T01	
± 2000	± 2400	2000:1	± 1.0	100	0.3438	50	10	2	± 28	90	CSA202-P042T01	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	10	2	± 28	90	CSA302-P042T01	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	10	2	± 42	120	CSA302-P043T01	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	10	2	± 42	90	CSA402-P042T01	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	10	2	± 42	120	CSA402-P043T01	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	10	2	± 42	90	CSA502-P042T01	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	10	2	± 48	120	CSA502-P043T01	

CS Fluxgate Current Sensor—Type P040/SP2(Integrated type, Accuracy:50ppm)

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 1000	± 1200	1000:1	± 1.0	100	0.3438	100	50	5	± 18	90	CSA102-P042T01/SP2	
± 2000	± 2400	2000:1	± 1.0	100	0.3438	50	50	5	± 28	90	CSA202-P042T01/SP2	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	50	5	± 28	90	CSA302-P042T01/SP2	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	50	5	± 42	120	CSA302-P043T01/SP2	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	50	5	± 42	90	CSA402-P042T01/SP2	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	50	5	± 42	120	CSA402-P043T01/SP2	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	50	5	± 42	90	CSA502-P042T01/SP2	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	50	5	± 48	120	CSA502-P043T01/SP2	

CSZero flux current sensor—Type P040/SP3(Integrated type, Accuracy:100ppm)

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 1000	± 1200	1000:1	± 1.0	100	0.3438	100	100	10	± 18	90	CSA102-P042T01/SP3	
± 2000	± 2400	2000:1	± 1.0	100	0.3438	50	100	10	± 28	90	CSA202-P042T01/SP3	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	100	10	± 28	90	CSA302-P042T01/SP3	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	100	10	± 42	120	CSA302-P043T01/SP3	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	100	10	± 42	90	CSA402-P042T01/SP3	

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	100	10	± 42	120	CSA402-P043T01/SP3	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	100	10	± 42	90	CSA502-P042T01/SP3	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	100	10	± 48	120	CSA502-P043T01/SP3	

CS Fluxgate Current Sensor—Type P040(Split-type, Accuracy:10ppm)

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 1000	± 1200	1000:1	± 1.0	100	0.3438	100	10	2	AC220	60	CSA102-P041T01S	
± 2000	± 2400	2000:1	± 1.0	100	0.3438	50	10	2	AC220	60	CSA202-P041T01S	
± 2000	± 2400	2000:1	± 1.0	100	0.3438	50	10	2	AC220	90	CSA202-P042T01S	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	10	2	AC220	90	CSA302-P042T01S	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	10	2	AC220	120	CSA302-P043T01S	
± 3000	± 3600	3000:1	± 1.0	100	0.3438	30	10	2	AC220	160	CSA302-P044T01S	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	10	2	AC220	90	CSA402-P042T01S	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	10	2	AC220	120	CSA402-P043T01S	
± 4000	± 4800	4000:1	± 1.0	100	0.3438	20	10	2	AC220	160	CSA402-P044T01S	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	10	2	AC220	90	CSA502-P042T01S	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	10	2	AC220	120	CSA502-P043T01S	
± 5000	± 6000	5000:1	± 1.0	100	0.3438	20	10	2	AC220	160	CSA502-P044T01S	
± 6000	± 7200	5000:1	± 1.2	100	0.3438	20	10	2	AC220	90	CSA602-P042T01S	
± 6000	± 7200	5000:1	± 1.2	100	0.3438	20	10	2	AC220	120	CSA602-P043T01S	
± 6000	± 7200	5000:1	± 1.2	100	0.3438	20	10	2	AC220	160	CSA602-P044T01S	
± 8000	± 9600	5000:1	± 1.6	100	0.3438	20	10	2	AC220	120	CSA802-P043T01S	
± 8000	± 9600	5000:1	± 1.6	100	0.3438	20	10	2	AC220	160	CSA802-P044T01S	
± 8000	± 9600	5000:1	± 1.6	100	0.3438	20	10	2	AC220	200	CSA802-P045T01S	
± 10000	± 12000	5000:1	± 2.0	100	0.3438	10	10	2	AC220	120	CSA103-P043T01S	
± 10000	± 12000	5000:1	± 2.0	100	0.3438	10	10	2	AC220	160	CSA103-P044T01S	

I _{pn} (A)	measure- ment(A)	Ratio	Output (A)	Ratio error @ 50Hz (ppm)	Phase error @50Hz (°)	Band- width (kHz)	Accuracy (ppm)	Linearity (ppm)	Power supply (V)	Diameter (mm)	Product	Image
± 10000	± 12000	5000:1	±20	100	0.3438	10	10	2	AC220	200	CSA103-P045T01S	
± 15000	± 18000	5000:1	±30	100	0.3438	10	10	2	AC220	160	CSA153-P044T01S	
± 15000	± 18000	6400:1	±234375	100	0.3438	10	10	2	AC220	160	CSA153-P044T02S	
± 15000	± 18000	6400:1	±234375	100	0.3438	10	10	2	AC220	200	CSA153-P045T02S	
±20000	± 24000	6400:1	±3.125	100	0.3438	8	10	2	AC220	200	CSA203-P045T01S	
±20000	± 24000	6400:1	±3.125	100	0.3438	8	10	2	AC220	250	CSA203-P046T01S	
±20000	± 24000	8000:1	±25	100	0.3438	5	10	2	AC220	250	CSA203-P046T02S	
±25000	± 30000	8000:1	±3.125	100	0.3438	5	10	2	AC220	250	CSA253-P046T01S	

CS Fluxgate Current Sensor—Type P090(Accuracy:10ppm)

I _{pn} (A)	Measurement(A)	Ratio	Output (mA)	Bandwidth (kHz)	Accuracy (μA/A)	Linearity (μA/A)	Power supply (V)	Diameter (mm)	Product	Image
± 0.001	± 0.002	1:10	± 10	100	50	3	± 15	6.3X0.8 inserts	CSA10D-P090T01	
± 0.01	± 0.02	1:5	± 50	200	20	2	± 15	6.3X0.8 inserts	CSA10C-P090T01	
± 0.1	± 0.15	2:1	± 50	300	10	2	± 15	6.3X0.8 inserts	CSA10B-P090T01	
± 1	± 1.5	20:1	± 50	300	10	2	± 15	6.3X0.8 inserts	CSA10A-P090T01	
± 10	± 15	200:1	± 50	300	10	2	± 15	6.3X0.8 inserts	CSA100-P090T01	

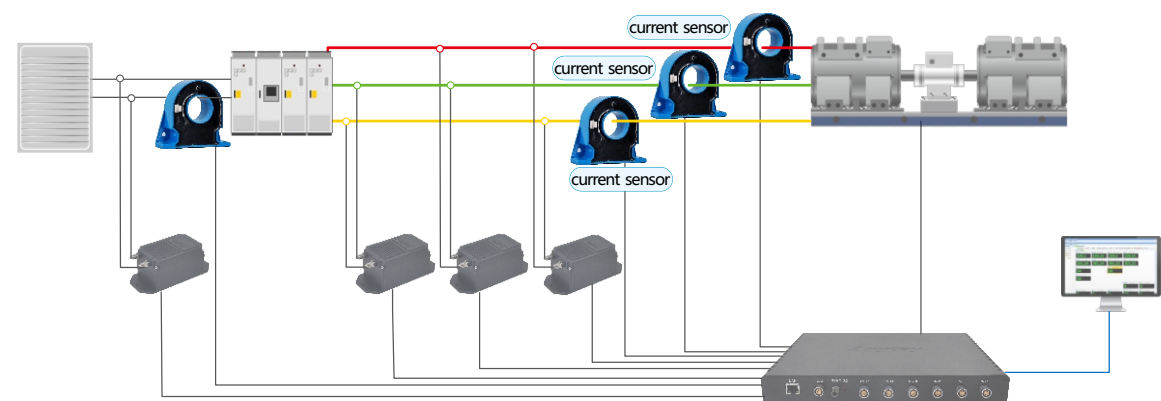
I _{pn} (A)	Measurement(A)	Ratio	Output (mA)	Bandwidth (kHz)	Accuracy (μA/A)	Linearity (μA/A)	Power supply (V)	Diameter (mm)	Product	Image
± 0.001	± 0.002	1:10	± 10	20	1000	30	± 15	6.3X0.8 inserts	CSA10D-G090T01	
± 0.01	± 0.02	1:5	± 50	20	300	20	± 15	6.3X0.8 inserts	CSA10C-G090T01	
± 0.1	± 0.15	2:1	± 50	50	200	20	± 15	6.3X0.8 inserts	CSA10B-G090T01	
± 1	± 1.5	20:1	± 50	100	200	20	± 15	6.3X0.8 inserts	CSA10A-G090T01	
± 10	± 15	200:1	± 50	100	200	20	± 15	6.3X0.8 inserts	CSA100-G090T01	

CS Fluxgate Current Sensor—Type CNE(Accuracy:100ppm)

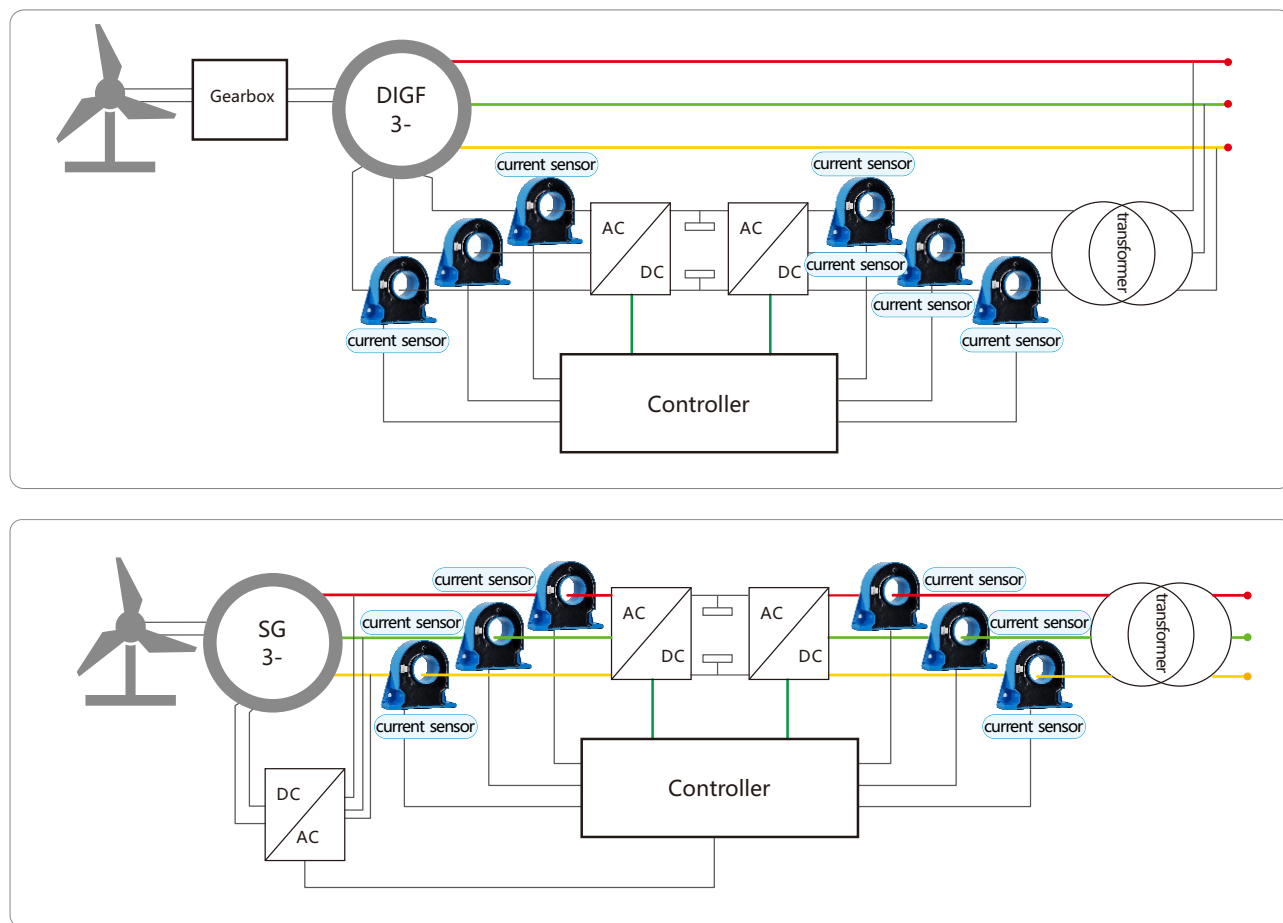
I _{pn} (A)	Measurement(A)	Ratio	Output (mA)	Bandwidth (kHz)	Accuracy (μA/A)	Linearity (μA/A)	Power supply (V)	Diameter (mm)	Product	Image
± 50	± 60	1000:1	± 50	100	100	50	± 12	12	CNE500I-SP1	
± 100	± 120	2000:1	± 50	100	100	50	± 12~ ± 15	12	CNE101I-SP1	
± 200	± 240	2000:1	± 100	100	100	50	± 15~ ± 18	20	CNE201I-SP1	
± 300	± 360	2000:1	± 150	100	100	50	± 12~ ± 18	25	CNE301I-SP1	
± 400	± 480	2000:1	± 160	100	100	15	± 15	25	CNE401I-SP7	
± 600	± 680	2000:1	± 200	100	100	50	± 15	25	CNE601I-SP2	
± 1000	± 1000	2500:1	± 200	100	100	20	± 15	38.5	CNE102I-SP4	
± 2000	± 2400	2000:1	± 400	100	100	20	± 24	70	CNE202I-SP1/P	

Application scenarios

01 New Energy Vehicles



02 Renewable energy



Application area

- > AUTOMOTIVE BATTERY MANAGEMENT
- > EVCHARGERS
- > AUTOMOTIVE MOTOR CONTROL
- > SMART GRID
- > WELDING
- > AUTOMATION
- > DRIVES
- > HIGH PRECISION
- > POWER SUPPLIES
- > RENEWABLE ENERGIES
- > TRACKSIDE
- > TRACTION



AnyWay



VS High Precision Voltage Sensor



Product overview

VS High Precision Voltage Sensors achieve high-precision voltage measurement of DC, AC, periodic pulses, and various irregular waveforms up to 35kV, under completely isolated conditions between the primary and secondary sides. They are mainly used for voltage testing and calibration with high accuracy requirements.



Parameter	Technical specifications
Voltage (rms)	0-35kV ^[1]
Accuracy (FS)	0-11kVrms:typical accuracy0.05%,best accuracy100QV/V or QA/A (customized) 11kV-35kVrms ^[1] typical accuracy0.5%,best accuracy0.2% (customized)
Phase error	2'@50Hz
Bandwidth (-3dB)	100kHz

*[1]Rated test voltage above 11kV products need to be customized.

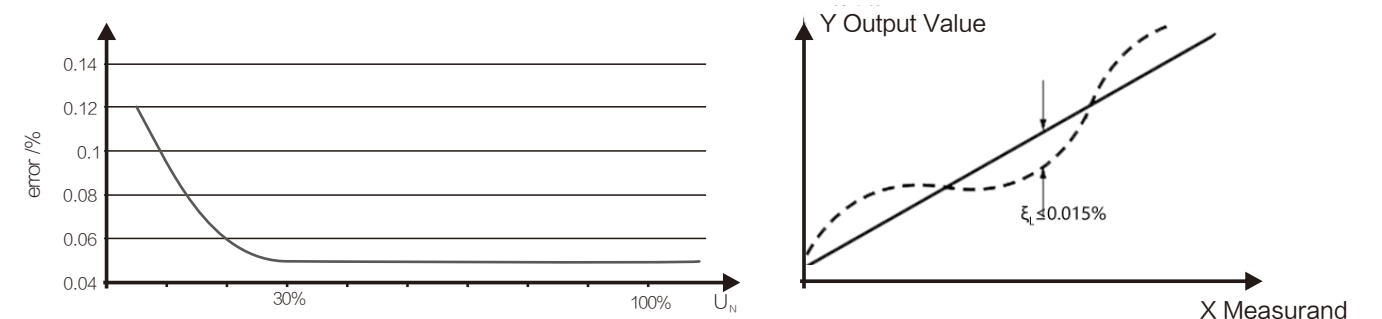
Product features

01 Defined Phase error

Usually, voltage sensors only focus on the ratio error and do not have a nominal phase error. This method is only suitable for individual measurement of voltage. When sensors are used to measure power, the phase error is an important indicator that affects the accuracy of power measurement.VS high-precision voltage sensors have clear phase error indicators, with typical phase error excellent to 2 ', making them more suitable for power measurement.

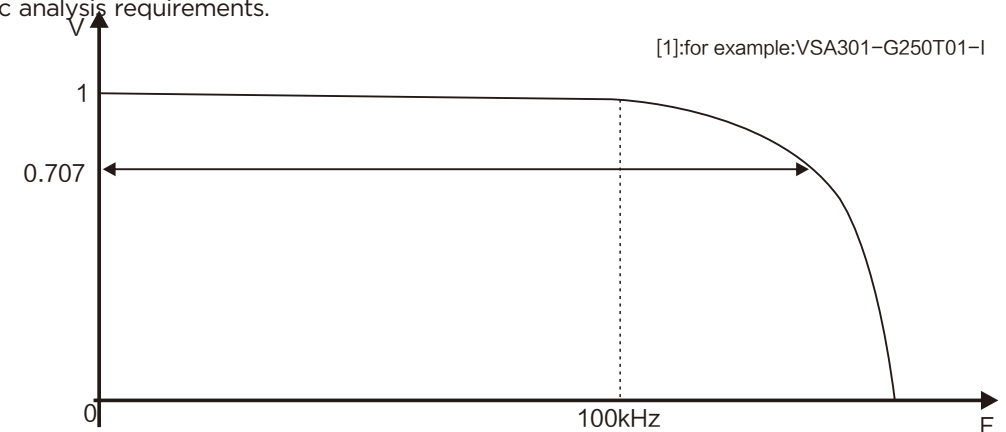
02 Wide Precision Measurement Range

Usually, voltage sensors are rated for full range accuracy, and there is a huge error when used below half range, which makes it difficult to meet the requirements of wide range testing applications. VS High Precision voltage sensor has excellent accuracy and linearity indicators, and can achieve high-precision measurement even at 30% FS.



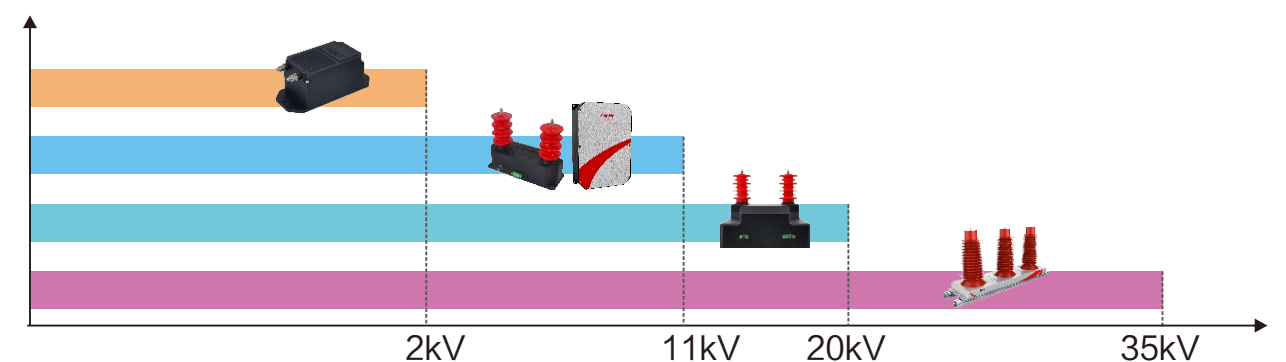
03 Excellent bandwidth

The VS High Precision Voltage Sensor has an input testing bandwidth exceeding 100kHz [1], making it suitable for sampling tests of wide bandwidth PWM waveforms and complex voltage waveforms, as well as for harmonic analysis requirements.



04 Range

he VS high-precision voltage sensor is isolated. It can achieve high-precision measurement of DC, AC, or any distorted voltage. Its voltage range covers 0-35kV.



05

Multiple Signal Output Types

VS high-precision voltage sensor provides various commonly used standardized current and voltage signal types, such as $\pm 10\text{V}$, $\pm 20\text{mA}$, $\pm 100\text{mA}$, $4\sim 20\text{mA}$, etc. It meets the signal access requirements of different measurement scenarios, ensuring product output accuracy while further improving product matching and universality.



Product selection

low voltage sensor ($\pm 100\text{mA}$ output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
100	± 200	200:100	± 100	0.05%	100	2	$\pm 9\sim \pm 15$	VSA101-G250T01-I	
100	± 200	200:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA101-G250T02-I	
100	± 200	200:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA101-G250T03-I	
300	± 500	500:100	± 100	0.05%	100	2	$\pm 9\sim \pm 15$	VSA301-G250T01-I	
300	± 500	500:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA301-G250T02-I	
300	± 500	500:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA301-G250T03-I	
700	± 1500	1500:100	± 100	0.05%	100	2	$\pm 9\sim \pm 15$	VSA701-G250T01-I	
700	± 1500	1500:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA701-G250T02-I	
700	± 1500	1500:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA701-G250T03-I	
1000	± 2000	2000:100	± 100	0.05%	100	2	$\pm 9\sim \pm 15$	VSA102-G250T01-I	
1000	± 2000	2000:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA102-G250T02-I	
1000	± 2000	2000:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA102-G250T03-I	
1500	± 3000	3000:100	± 100	0.05%	60	2	$\pm 9\sim \pm 15$	VSA152-G250T01-I	
1500	± 3000	3000:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA152-G250T02-I	
1500	± 3000	3000:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA152-G250T03-I	

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
2000	± 3000	3000:100	± 100	0.05%	100	2	$\pm 9\sim \pm 15$	VSA202-G250T01-I	
2000	± 3000	3000:100	± 100	0.1%	100	2	$\pm 9\sim \pm 15$	VSA202-G250T02-I	
2000	± 3000	3000:100	± 100	0.2%	100	2	$\pm 9\sim \pm 15$	VSA202-G250T03-I	

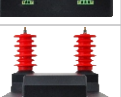
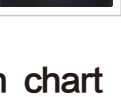
low voltage sensor ($\pm 20\text{mA}$ output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
100	± 200	200:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA101-G270T01-I	
100	± 200	200:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA101-G270T02-I	
100	± 200	200:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA101-G270T03-I	
300	± 500	500:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA301-G270T01-I	
300	± 500	500:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA301-G270T02-I	
300	± 500	500:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA301-G270T03-I	
700	± 1500	1500:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA701-G270T01-I	
700	± 1500	1500:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA701-G270T02-I	
700	± 1500	1500:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA701-G270T03-I	
1000	± 2000	2000:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA102-G270T01-I	
1000	± 2000	2000:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA102-G270T02-I	
1000	± 2000	2000:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA102-G270T03-I	
1500	± 3000	3000:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA152-G270T01-I	
1500	± 3000	3000:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA152-G270T02-I	
1500	± 3000	3000:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA152-G270T03-I	
2000	± 3000	3000:20	± 20	0.05%	100	2	$\pm 9\sim \pm 15$	VSA202-G270T01-I	
2000	± 3000	3000:20	± 20	0.1%	100	2	$\pm 9\sim \pm 15$	VSA202-G270T02-I	
2000	± 3000	3000:20	± 20	0.2%	100	2	$\pm 9\sim \pm 15$	VSA202-G270T03-I	

low voltage sensor (±10Voutput) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/V)	Output (V)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
100	± 200	200:10	± 10	0.05%	100	2	± 15	VSV101-G280T01-I	
100	± 200	200:10	± 10	0.1%	100	2	± 15	VSV101-G280T02-I	
100	± 200	200:10	± 10	0.2%	100	2	± 15	VSV101-G280T03-I	
300	± 500	500:10	± 10	0.05%	100	2	± 15	VSV301-G280T01-I	
300	± 500	500:10	± 10	0.1%	100	2	± 15	VSV301-G280T02-I	
300	± 500	500:10	± 10	0.2%	100	2	± 15	VSV301-G280T03-I	
700	± 1500	1500:10	± 10	0.05%	100	2	± 15	VSV701-G280T01-I	
700	± 1500	1500:10	± 10	0.1%	100	2	± 15	VSV701-G280T02-I	
700	± 1500	1500:10	± 10	0.2%	100	2	± 15	VSV701-G280T03-I	
1000	± 2000	2000:10	± 10	0.05%	100	2	± 15	VSV102-G280T01-I	
1000	± 2000	2000:10	± 10	0.1%	100	2	± 15	VSV102-G280T02-I	
1000	± 2000	2000:10	± 10	0.2%	100	2	± 15	VSV102-G280T03-I	
1500	± 3000	3000:10	± 10	0.05%	100	2	± 15	VSV152-G280T01-I	
1500	± 3000	3000:10	± 10	0.1%	100	2	± 15	VSV152-G280T02-I	
1500	± 3000	3000:10	± 10	0.2%	100	2	± 15	VSV152-G280T03-I	
2000	± 3000	3000:10	± 10	0.05%	100	2	± 15	VSV202-G280T01-I	
2000	± 3000	3000:10	± 10	0.1%	100	2	± 15	VSV202-G280T02-I	
2000	± 3000	3000:10	± 10	0.2%	100	2	± 15	VSV202-G280T03-I	

High Voltage Isolated Voltage Sensor (±100mA output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	± 7500	7500:100	± 100	0.1%	60	12	AC220	VSA332-G250T12-I	
3300	± 7500	7500:100	± 100	0.2%	60	12	AC220	VSA332-G250T13-I	
6600	± 15000	15000:100	± 100	0.1%	30	12	AC220	VSA662-G250T12-I	
6600	± 15000	15000:100	± 100	0.2%	30	12	AC220	VSA662-G250T13-I	
11000	± 20000	20000:100	± 100	0.1%	10	36	AC220	VSA113-G250T12-I	
11000	± 20000	20000:100	± 100	0.2%	10	36	AC220	VSA113-G250T13-I	
15000	± 22000	22000:100	± 100	0.2%	10	/	AC220	VSA153-G250T13-I	
15000	± 22000	22000:100	± 100	0.5%	10	/	AC220	VSA153-G250T14-I	
20000	± 33000	33000:100	± 100	0.2%	5	36	AC220	VSA203-G250T13-I	
20000	± 33000	33000:100	± 100	0.5%	5	36	AC220	VSA203-G250T14-I	

High Voltage Isolated Voltage Sensor (±20mA output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	± 7500	7500:20	± 20	0.1%	60	12	AC220	VSA332-G270T12-I	
3300	± 7500	7500:20	± 20	0.2%	60	12	AC220	VSA332-G270T13-I	
6600	± 15000	15000:20	± 20	0.1%	30	12	AC220	VSA662-G270T12-I	
6600	± 15000	15000:20	± 20	0.2%	30	12	AC220	VSA662-G270T13-I	

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
11000	±20000	20000:20	±20	0.1%	10	36	AC220	VSA113-G270T12-I	
11000	±20000	20000:20	±20	0.2%	10	36	AC220	VSA113-G270T13-I	
15000	±22000	22000:20	±20	0.2%	10	36	AC220	VSA153-G270T13-I	
15000	±22000	22000:20	±20	0.5%	10	36	AC220	VSA153-G270T14-I	
20000	±33000	33000:20	±20	0.2%	5	36	AC220	VSA203-G270T13-I	
20000	±33000	33000:20	±20	0.5%	5	36	AC220	VSA203-G270T14-I	

High Voltage Isolated Voltage Sensor (±10V output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/V)	Output (V)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	±7500	7500:10	±10	0.1%	60	6	AC220	VSV332-G280T12-I	
3300	±7500	7500:10	±10	0.2%	60	6	AC220	VSV332-G280T13-I	
6600	±15000	15000:10	±10	0.1%	30	12	AC220	VSV662-G280T12-I	
6600	±15000	15000:10	±10	0.2%	30	12	AC220	VSV662-G280T13-I	
11000	±20000	20000:10	±10	0.1%	10	36	AC220	VSV113-G280T12-I	
11000	±20000	20000:10	±10	0.2%	10	36	AC220	VSV113-G280T13-I	

Vpn (Vrms)	Measurement (Vp)	Ratio (V/V)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
5000	±22000	22000:10	±10	0.2%	10	36	AC220	VSV153-G280T13-I	
15000	±22000	22000:10	±10	0.5%	10	36	AC220	VSV153-G280T14-I	
20000	±33000	33000:10	±10	0.2%	10	36	AC220	VSV203-G280T13-I	
20000	±33000	33000:10	±10	0.5%	10	36	AC220	VSV203-G280T14-I	

High Voltage Non-isolated Voltage Sensor (±100mA output) model selection chart

Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	±7500	7500:100	±100	0.05%	60	5	AC220	VSA332-G250T11-N	
3300	±7500	7500:100	±100	0.1%	60	5	AC220	VSA332-G250T12-N	
3300	±7500	7500:100	±100	0.2%	60	5	AC220	VSA332-G250T13-N	
6600	±15000	15000:100	±100	0.05%	30	5	AC220	VSA662-G250T11-N	
6600	±15000	15000:100	±100	0.1%	30	5	AC220	VSA662-G250T12-N	
6600	±15000	15000:100	±100	0.2%	30	5	AC220	VSA662-G250T13-N	
11000	±20000	20000:100	±100	0.05%	10	5	AC220	VSA113-G250T11-N	
11000	±20000	20000:100	±100	0.1%	10	5	AC220	VSA113-G250T12-N	
11000	±20000	20000:100	±100	0.2%	10	5	AC220	VSA113-G250T13-N	

High Voltage Non-isolated Voltage Sensor (±20mA output)
model selection chart

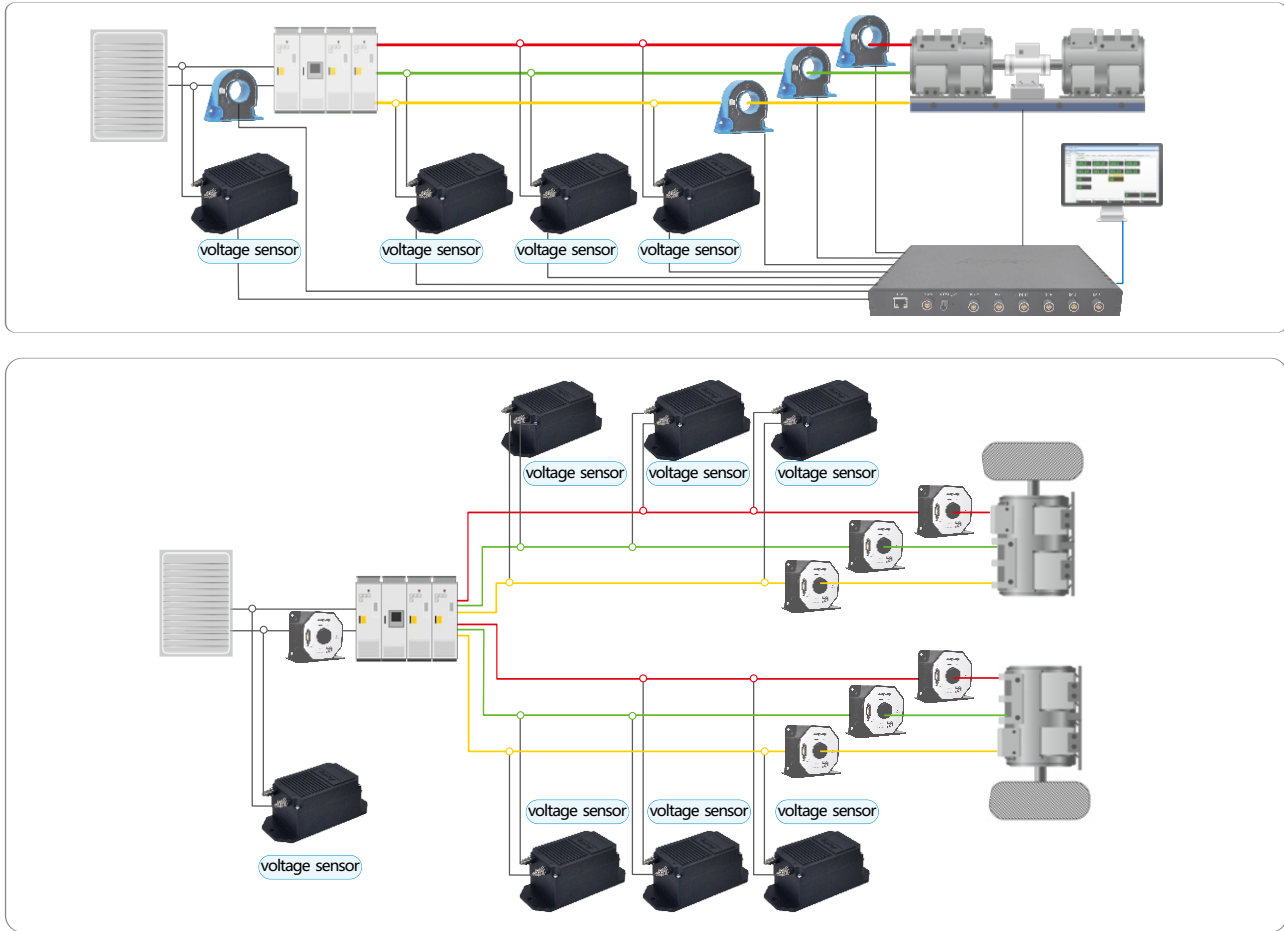
Vpn (Vrms)	Measurement (Vp)	Ratio (V/mA)	Output (mA)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	± 7500	7500:20	± 20	0.05%	60	5	AC220	VSA332-G270T11-N	
3300	± 7500	7500:20	± 20	0.1%	60	5	AC220	VSA332-G270T12-N	
3300	± 7500	7500:20	± 20	0.2%	60	5	AC220	VSA332-G270T13-N	
6600	± 15000	15000:20	± 20	0.05%	30	5	AC220	VSA662-G270T11-N	
6600	± 15000	15000:20	± 20	0.1%	30	5	AC220	VSA662-G270T12-N	
6600	± 15000	15000:20	± 20	0.2%	30	5	AC220	VSA662-G270T13-N	
11000	± 20000	20000:20	± 20	0.05%	10	5	AC220	VSA113-G270T11-N	
11000	± 20000	20000:20	± 20	0.1%	10	5	AC220	VSA113-G270T12-N	
11000	± 20000	20000:20	± 20	0.2%	10	5	AC220	VSA113-G270T13-N	

High Voltage Non-isolated Voltage Sensor (±10V output)
model selection chart

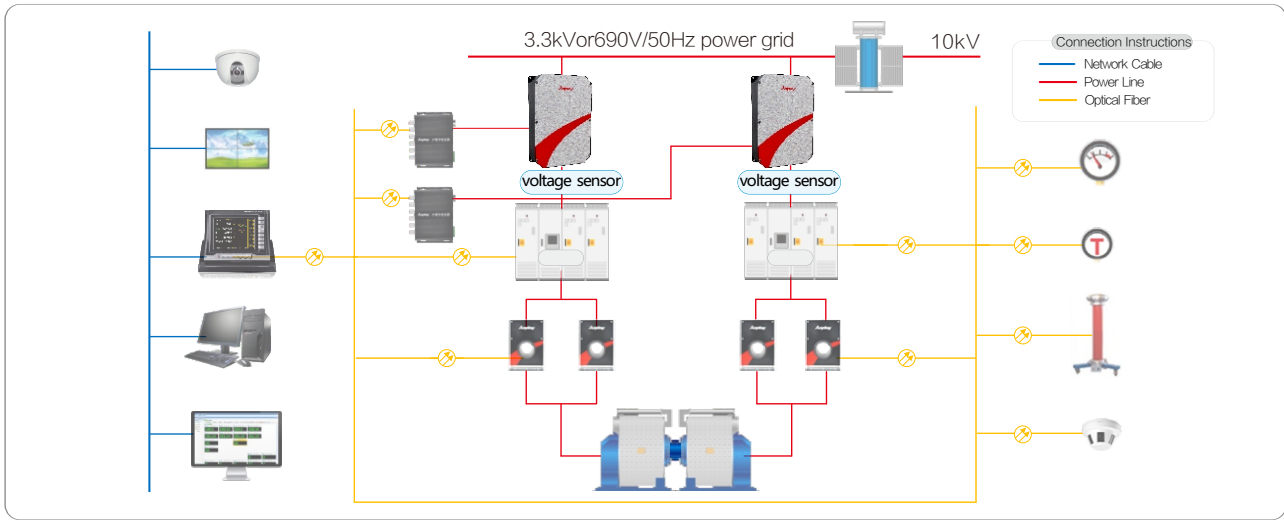
Vpn (Vrms)	Measurement (Vp)	Ratio (V/V)	Output (V)	Accuracy (FS)	Bandwidth (kHz)	Phase error@50Hz(°)	power supply (VDC)	Product	Image
3300	± 7500	7500:10	± 10	0.05%	60	5	AC220	VSV332-G280T11-N	
3300	± 7500	7500:10	± 10	0.1%	60	5	AC220	VSV332-G280T12-N	
3300	± 7500	7500:10	± 10	0.2%	60	5	AC220	VSV332-G280T13-N	
6600	± 15000	15000:10	± 10	0.05%	30	5	AC220	VSV662-G280T11-N	
6600	± 15000	15000:10	± 10	0.1%	30	5	AC220	VSV662-G280T12-N	
6600	± 15000	15000:10	± 10	0.2%	30	5	AC220	VSV662-G280T13-N	
11000	± 20000	20000:10	± 10	0.05%	10	5	AC220	VSV113-G280T11-N	
11000	± 20000	20000:10	± 10	0.1%	10	5	AC220	VSV113-G280T12-N	
11000	± 20000	20000:10	± 10	0.2%	10	5	AC220	VSV113-G280T13-N	

Application scenarios

01 New Energy Vehicles



02 Renewable energy



Application Area

- > AUTOMOTIVE BATTERY MANAGEMENT
- > SMART GRID
- > DRIVES
- > RENEWABLE ENERGIES
- > EVCHARGERS
- > WELDING
- > HIGH PRECISION
- > TRACKSIDE
- > AUTOMOTIVE MOTOR CONTROL
- > AUTOMATION
- > POWER SUPPLIES
- > TRACTION



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