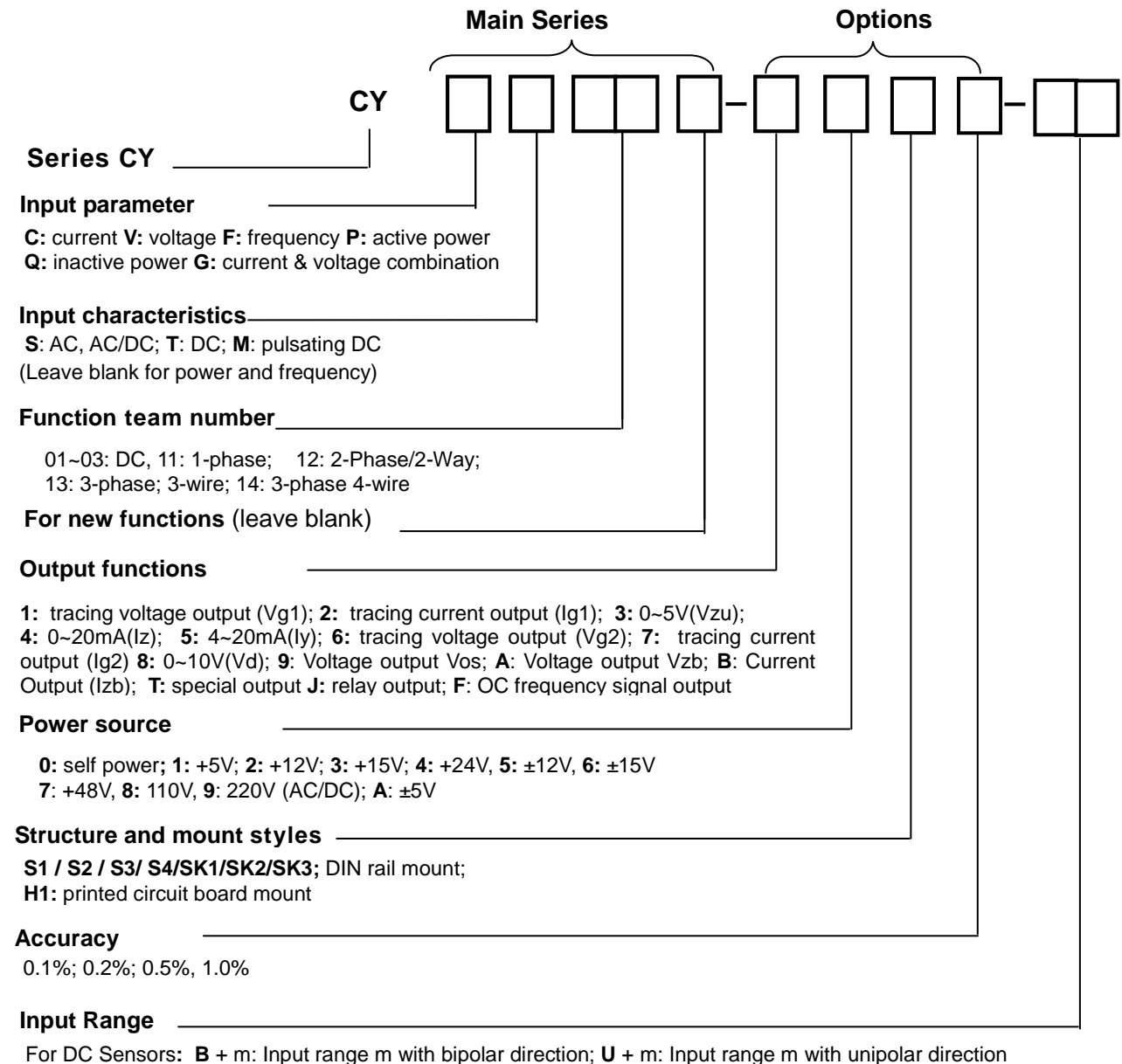




Product Overview of Electric Analog Sensors

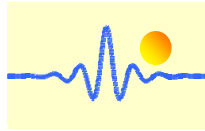
Part Number



- **B:** Bipolar Input range, B20A means an input range of -20A DC ~ +20A DC
- **U:** Unipolar Input range, U20A means an input range of 0 ~ 20A DC

Typical Example:

CYCS11-32S3-0.5-5A Single Phase AC Current Transducer, Output: 0-5V, Power Source: +12V, Accuracy: 0.5%, Case Style: S3 with Window Φ20mm, Input Range: 0-5A AC/RMS.



CYCT03-32S3-1.0-U10A DC Current Transducer, Output: 0-5V, Power Source: +12V, Accuracy: 1.0%, Case Style: S3 with Window Φ 20mm, Input Range: 0~10A DC.

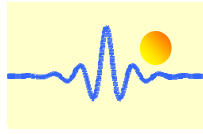
CYCT03-A2S3-1.0-B10A DC Current Transducer, Output: -5V ~+5VDC, Power Source: +12V, Accuracy: 1.0%, Case Style: S3 with Window Φ 20mm, Input Range: -10A ~ +10A DC.

Series Name

Current Sensors		Voltage Sensors	
Old Series Name	New Series Name	Old Series Name	New Series Name
CYIJ03	CYCS11-32H1	CYVJ03	CYVS11-xnD1
	CYCS11-xnS2		CYVS11-xnS2
	CYCS11-xnS3		
	CYCS11-xnS4		
	CYCS11-xnSK2		
	CYCS11-x0S4		CYVS11-xnS3
CYIJ31	CYCS13-xnS3	CYVJ31	CYVS13-xnS3
	CYCS13-xnSK3		CYVS13-xnSK1
CYIZ01	CYCT01-xnS1	CYVJ41	CYVS14-xnS3
	CYCT01-xnS3		CYVS14-xnSK1
CYIZ02	CYCT02-xnS1	CYVZ01	CYVT01-xnS1
	CYCT02-xnS2		CYVT01-xnS2
			CYVT01-xnS3
CYIZ06	CYCT03-xnS3	CYVZ02	CYVT01-xnS1
			CYVT01-xnS2
			CYVT01-xnS3

Typical Operating Specifications

Item	Test condition	Index	
		Class 0.2	Class 0.5
Thermal Drift	+12V, 25°C	$\leq 200 \text{ ppm}/^\circ\text{C}$	$\leq 500 \text{ ppm}/^\circ\text{C}$
Output Ripple	+12V, 25°C	10mV	15mV
Output Load	+12V, 25°C Vz (3) output	$\geq 2 \text{ k}\Omega$	
	+12V, 25°C Iz (4) and Iy (5) output	$\leq 250 \Omega$	
Operating Temperature	+12V	-10°C ~ +70°C	
Isolation Withstanding Voltage	1 min.	$\leq 2500 \text{ V DC}$	
	1 min.	$\leq 1500 \text{ V DC RMS}$	

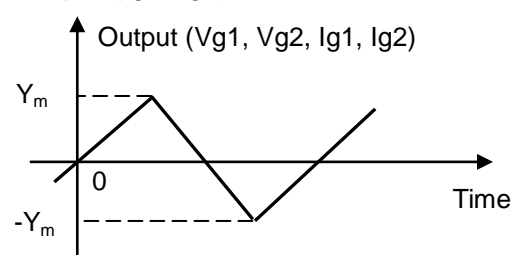
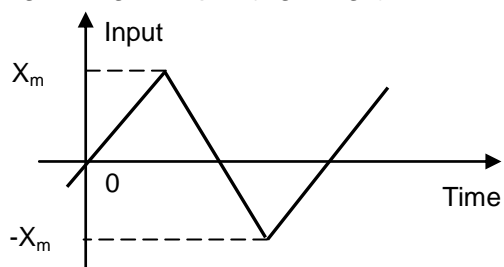


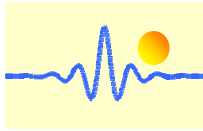
Output Function Codes

Code	Symbol	Definition	Applications
1	Vg1	Tracing Voltage Output	5V (V_{p-p}), suitable for AC/DC or peak value sampling system, quick response, high precision.
2	Ig1	Tracing Current Output	20mA (I_{p-p}), suitable for AC/DC sampling and peak value sampling system, high precision, and quick response.
3	Vzu	DC Voltage Output	0-5V DC, can be connected direct to A/D converter, digit panel, indicator, PLC
4	Izu	DC Current Output	0-20mA DC, suitable for long distance signal transmission, resistance to interference.
5	Iy	DC Current Output	4-20mA DC, suitable for long distance signal transmission, resistance to interference.
6	Vg2	Tracing Voltage Output	4V (V_{p-p}), suitable for AC/DC or peak value sampling system, quick response, high precision
7	Ig2	Tracing Current Output	20mA ~ 200mA (I_{p-p}), suitable for AC/DC sampling and peak value sampling system, high precision, and quick response.
8	Vd	DC Voltage Output	0-10 V DC, can be connected direct to digit panel, indicator etc. (power source $\geq 15V$).
9	Vos	Tracing Voltage Output with Offset	+2.5VDC +/-1.0V or +2.5VDC +/-0.625V, suitable for single power supply systems
A	Vzb	DC Voltage Output	-5V ~ +5VDC, can be connected direct to A/D converter, digit panel, indicator, PLC
B	Izb	DC Current Output	-20mA ~ +20mADC, suitable for long distance signal transmission, resistance to interference.
F	F	OC frequency signal output	0~10 kHz frequency signal or custom frequency signal, photoelectric isolation OC output
J	J	Relay touch point	Use to inspect and offside alarm for AC/DC current and voltage
T	T	Special Output	Reserved for special output configurations.

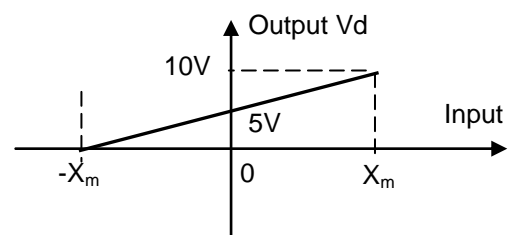
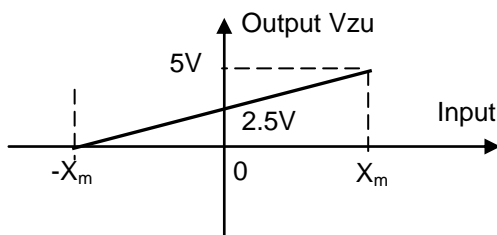
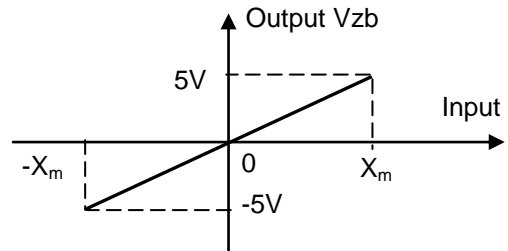
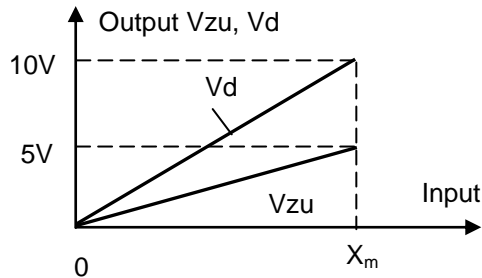
Input / Output Graphs.

a) Tracing Voltage Output (Vg1, Vg2) or Tracing Current Output (Ig1, Ig2)

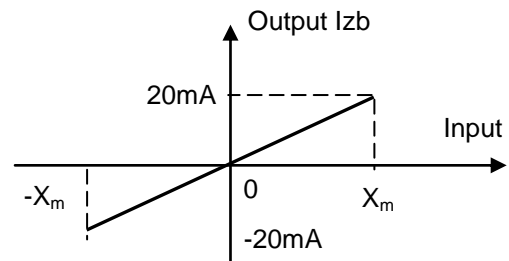
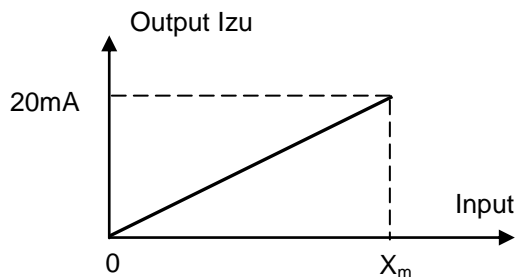




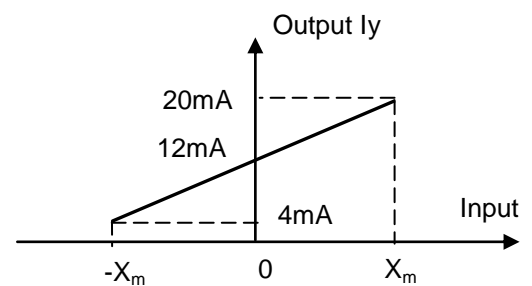
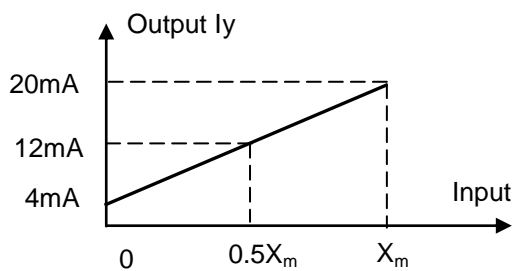
b) DC Voltage Output V_{zu} , V_d and V_{zb}



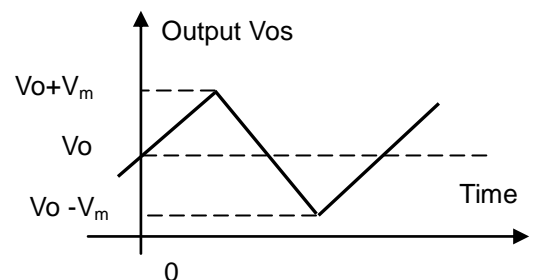
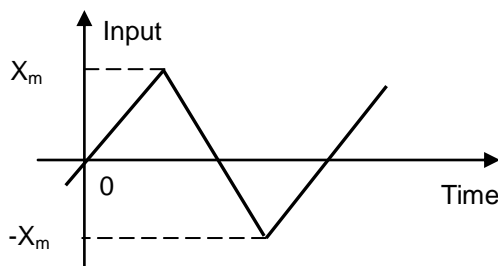
c) DC Current Output I_{zu} and I_{zb}

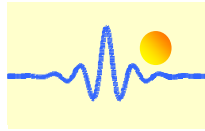


d) DC Current Output I_y



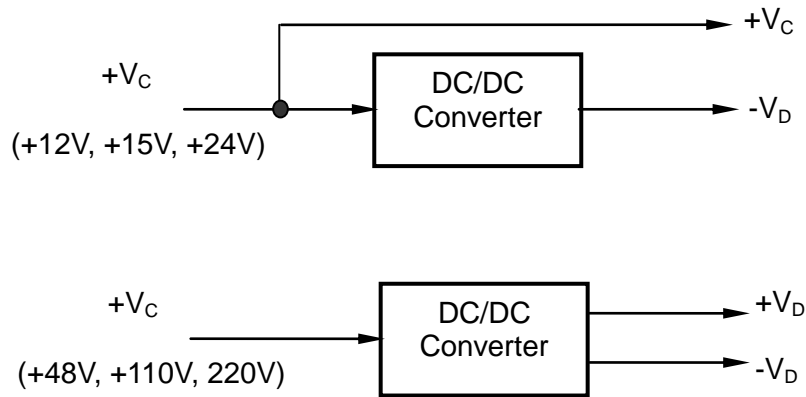
e) Tracing Voltage Output V_{os}





Output Signal Limitations of Sensors with Single Power Supply

Internal DC/DC Converting of Single Power Supply:



Power supply V_C	Power supply V_D	Output Signal
+12VDC	-6VDC	Not 0-10VDC and -10V~+10VDC, all other output signals are available
+15VDC	-6VDC	Not -10V ~ +10VDC, all other output signals are available
+24VDC	-15VDC	All output signals are available
$\pm 12VDC$	x	Not -10V ~ +10VDC, all other output signals are available
$\pm 15VDC$	x	All output signals are available
+48VDC	$\pm 15VDC$ or $\pm 24VDC$	All output signals are available
+110VDC	$\pm 15VDC$ or $\pm 24VDC$	All output signals are available
220V DC/AC	$\pm 15VDC$ or $\pm 24VDC$	All output signals are available