

TRMS transducer(Cassette type)

CHW-C 50mA~10A CHW-VC 1V~100V(AC+DC)

It is used to measure AC+DC current or voltage and output DC standard signal. The measured current or voltage on the primary side is electrically isolated from the output signal on the secondary side

Feature:

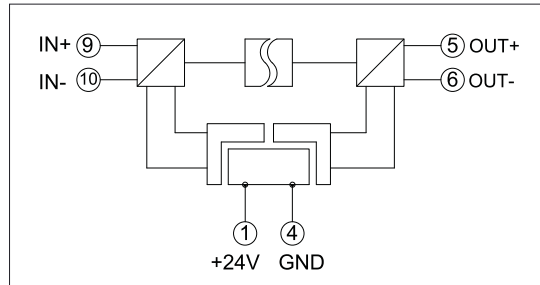
Test frequency: AC+DC
Response time: less than 0.35s
Linearity: 0.2%

No insertion loss measured

It is used to measure AC+DC current or voltage and output DC standard signal

The primary current(voltage) is highly isolated from the secondary output signal

Low power consumption, single power supply, wide range of power supply



Working principle:

The three-terminal isolation technology is adopted, that is, the input end, output end and power supply end of the transmitter are isolated from each other. Multiple signals can be isolated from each other to avoid mutual influence between multiple sensor circuits. Therefore, the transmitter can be applied to the signal conversion and transmission between the sensor and the controller in the field, and can also be applied to the drive of high load in the long-distance transmission loop.

HCW-C series TRMS current transducer parameters

Part No	Rated input current I _N (A)	f (HZ)	I _P (A)	Output V _M (V)orI _M (mA)	Accuracy T _a =25°C	V _{off} (mV)	Supply V _C (V)	I _C (mA)	V _i (KV)	T _a (°C)	W (g)	Input hole mm
HCW-C-*A/#	1/2/5/10	AC+DC	I _N x120%	#	1.0%	±50mV	24	120	2.5	-25~+70	100	Terminal
HCW-C-*MA/#	50/100/150/200/400/500mA	AC+DC	I _N x120%	#	1.0%	±50mV	24	120	2.5	-25~+70	100	Terminal

HCW-VC series TRMS voltage transducer parameters

Part No	Rated input voltage V _N (V)	f (HZ)	V _P (V)	Output V _M (V)orI _M (mA)	Accuracy T _a =25°C	V _{off} (mV)	Supply V _C (V)	I _C (mA)	V _i (KV)	T _a (°C)	W (g)	Input hole mm
HCW-VC-*/#	1/10/50/100	AC+DC	V _N x120%	#	1.0%	±50mV	24	120	2.5	-25~+70	100	Terminal

* : Rated input current or voltage # : Rated output current or voltage

#	A0	A1	A2	V0	V1	V2
Output	0~20mA	4~20mA	0~10mA	0~5V	1~5V	0~10V

HCW-C-MA series TRMS current transducer parameters (used in conjunction with sensors)

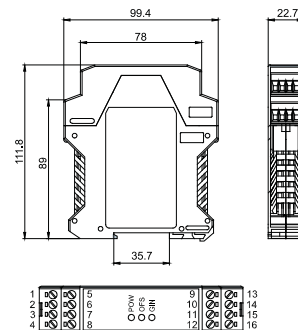
Part No	Rated input current I _N (A)	f (HZ)	I _P (A)	Output V _M (V)orI _M (mA)	Accuracy T _a =25°C	V _{off} (mV)	Supply V _C (V)	I _C (mA)	V _i (KV)	T _a (°C)	W (g)	Auxiliary power supply V _C (V)
HCW-C-*MA/SP11	50/100/150/200/400/500	AC+DC	I _N x120%	0...20mA	1.0%	±0.3mA	24	120	2.5	-25~+70	100	±15
HCW-C-*MA/SP12	50/100/150/200/400/500	AC+DC	I _N x120%	4...20mA	1.0%	±0.3mA	24	120	2.5	-25~+70	100	±15
HCW-C-*MA/SP13	50/100/150/200/400/500	AC+DC	I _N x120%	0...5V	1.0%	±50mV	24	120	2.5	-25~+70	100	±15
HCW-C-*MA/SP14	50/100/150/200/400/500	AC+DC	I _N x120%	1...5V	1.0%	±50mV	24	120	2.5	-25~+70	100	±15

HCW-VC series TRMS voltage transducer parameters (used in conjunction with sensors)

Part No	Rated input current V _N (V)	f (HZ)	V _P (V)	Output V _M (V)orI _M (mA)	Accuracy T _a =25°C	V _{off} (mV)	Supply V _C (V)	I _C (mA)	V _i (KV)	T _a (°C)	W (g)	Auxiliary power supply V _C (V)
HCW-VC-*SP11	1/4/5/10	AC+DC	V _N x120%	0...20mA	1.0%	±0.3mA	24	120	2.5	-25~+70	100	±15
HCW-VC-*SP12	1/4/5/10	AC+DC	V _N x120%	4...20mA	1.0%	±0.3mA	24	120	2.5	-25~+70	100	±15
HCW-VC-*SP13	1/4/5/10	AC+DC	V _N x120%	0...5V	1.0%	±50mV	24	120	2.5	-25~+70	100	±15
HCW-VC-*SP14	1/4/5/10	AC+DC	V _N x120%	1...5V	1.0%	±50mV	24	120	2.5	-25~+70	100	±15

* : Rated input current or voltage

Auxiliary power supply: ±15V/0.5A auxiliary power output, power supply for supporting sensors



I _N	Nominal current	V _{off}	Offset voltage
V _N	Nominal voltage	T _d	Temperature drift
I _P	Measuring range	L	Linearity
R _M	Measuring resistance	T _r	Response time
I _M	Output current	f	Frequency bandwidth
V _M	Output voltage	T _a	Operating temperature
K _N	Turns ratio	T _s	Storage temperature
X	Accuracy	I _C	Current consumption
V _C	Supply voltage	R _S	Secondary resistance
V _i	Isolation voltage	R _N	Primary resistance
I _{off}	Offset current	W	Weight