



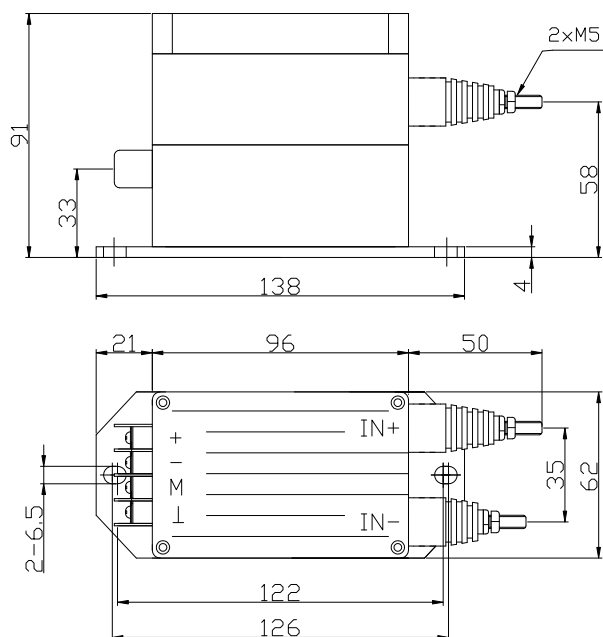
SENSOR Module CHV-100/*

$V_N = 800 \dots 2000V$

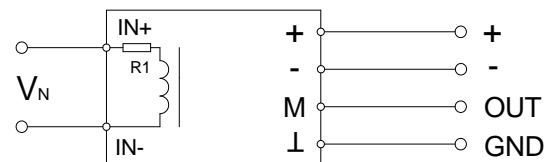
Specifications: Closed loop Hall voltage sensor, Nominal voltage 800...2000V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-100/800	CHV-100/1000	CHV-100/1500	CHV-100/2000	
V_N	Nominal voltage (RMS)	800V	1000V	1500V	2000V
V_P	Measuring range (V_{P-P})	0...±1200V	0...±1500V	0...±2250V	0...±3000V
R_M	Measuring resistance ($V_c = \pm 12 \dots 15V$)	$R_M \text{ min}$			
V_M	Output voltage	Nominal output voltage 5V, for primary nominal voltage V_N			
KN	Turns ratio	20000:2000			
X	Accuracy ($T_a = +25^\circ C$)	$V_N \pm 0.5\%$			
V_c	Supply voltage	$\pm 12 \dots 15V (\pm 5\%)$			
V_i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.			
V_{off}	Offset voltage ($T_a = +25^\circ C$)	$\pm 30mV \text{ max}$, for primary voltage $V_N = 0$			
T_d	Temperature drift	V_M of 0.05%/°C ($-25^\circ C \dots +70^\circ C$)			
L	Linearity	0.1%			
T_r	Response time	40...200µS			
f	Frequency bandwidth	0...20KHz			
T_a	Operating temperature	$-25^\circ C \dots +70^\circ C$			
T_s	Storage temperature	$-40^\circ C \dots +85^\circ C$			
I_c	Current consumption	10mA+ I_M (Measuring current)			
R_s	Secondary resistance	60Ω ($T_a = +70^\circ C$)			
R_N	Primary resistance	1.8KΩ+R1 (Build in resistor) ($T_a = +70^\circ C$)			
W	Weight	650g			

Dimensions (mm):



Connection:



Connection:

Primary terminals:
 IN+: input positive voltage
 IN-: input negative voltage
 *...Nominal voltage

Secondary terminals:

+ : supply voltage +12...15V
 - : supply voltage - 12...15V
 M: output
 ⊥ : GND (0V)



Remarks

- Output V_M is positive when a positive voltage V_N is applied on the terminal IN+.
- The sensor is directly connected to the primary voltage V_N by the terminals IN+ and IN- (R1 is built into the sensor).

-The **SENSOR Module** is a sensor of a solid-state component for the electronic measurement of current or voltage with a galvanic isolation between the primary and secondary circuits.
 - Please contact us by WeChat for more information.





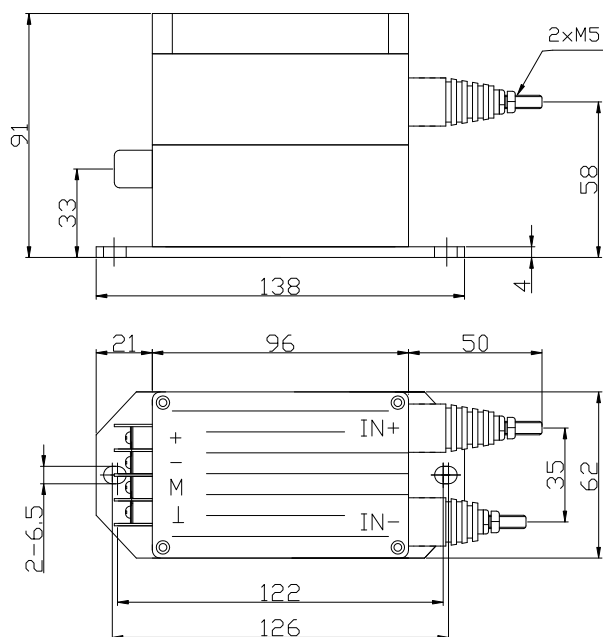
SENSOR Module CHV-100/*

$V_N = 2500 \dots 3000V$

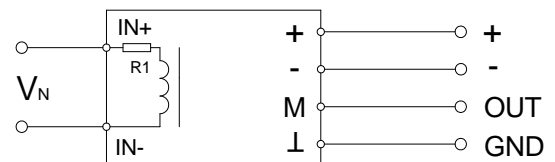
Specifications: Closed loop Hall voltage sensor, Nominal voltage 2500...3000V RMS for measuring of voltage: AC/DC/pulsed

Type	CHV-100/2500	CHV-100/3000
V_N	Nominal voltage (RMS) 2500V	3000V
V_P	Measuring range (V_{P-P}) 0...±3750V	0...±4500V
R_M	Measuring resistance ($V_c = \pm 12 \dots 15V$)	R_M min >10K Ω
V_M	Output voltage	Nominal output voltage 5V, for primary nominal voltage V_N
KN	Turns ratio	30000:2000
X	Accuracy ($T_a = +25^\circ C$)	$V_N \pm 0.5\%$
V_c	Supply voltage	$\pm 12 \dots 15V (\pm 5\%)$
V_i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.
V_{off}	Offset voltage ($T_a = +25^\circ C$)	$\pm 30mV$ max, for primary voltage $V_N = 0$
T_d	Temperature drift	V_M of 0.05%/°C (-25°C...+70°C)
L	Linearity	0.1%
T_r	Response time	40...200 μS
f	Frequency bandwidth	0...20KHz
T_a	Operating temperature	-25°C...+70°C
T_s	Storage temperature	-40°C...+85°C
I_c	Current consumption	10mA+ I_M (Measuring current)
R_s	Secondary resistance	60 Ω ($T_a = +70^\circ C$)
R_N	Primary resistance	1.8K Ω +R1 (Build in resistor) ($T_a = +70^\circ C$)
W	Weight	650g

Dimensions (mm):



Connection:



Connection:

Primary terminals:
 IN+: input positive voltage
 IN-: input negative voltage
 *...Nominal voltage

Secondary terminals:

+ : supply voltage +12...15V
 - : supply voltage - 12...15V
 M: output
 ⊥ : GND (0V)



Remarks

- Output V_M is positive when a positive voltage V_N is applied on the terminal IN+.
- The sensor is directly connected to the primary voltage V_N by the terminals IN+ and IN- (R1 is built into the sensor).

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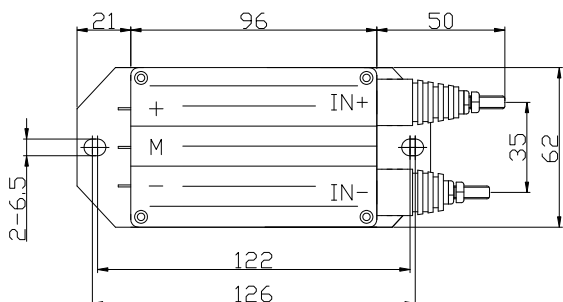
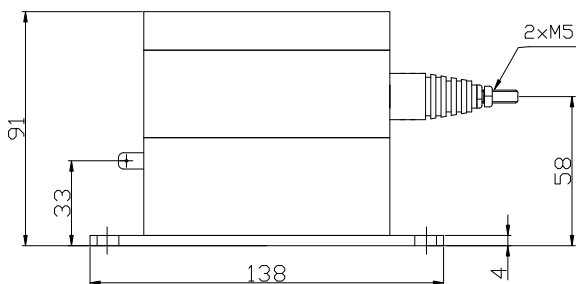
SENSOR Module CHV-100/*A

$V_N = 600 \dots 2000V$

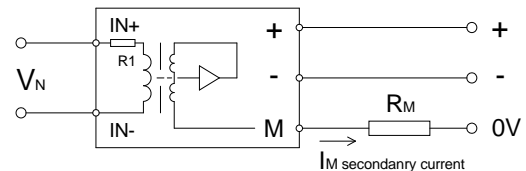
Specifications: Closed loop Hall voltage sensor, Nominal voltage 600...2000V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-100/600A	CHV-100/800A	CHV-100/1000A	CHV-100/2000A	
V_N	Nominal voltage (RMS)	600V	800V	1000V	2000V
V_P	Measuring range (V_{P-P})	0...±900V	0...±1200V	0...±1500V	0...±3000V
R_M	Measuring resistance	R_M min		R_M max	
	($V_c = \pm 12 \dots 15V$)	0Ω		150Ω	
I_M	Output current	Nominal output current 25mA, for primary nominal voltage V_N			
KN	Turns ratio	20000:2000			
X	Accuracy ($T_a = +25^\circ C$)	$V_N \pm 0.5\%$			
V_c	Supply voltage	$\pm 12 \dots 15V (\pm 5\%)$			
V_i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.			
I_{off}	Offset current ($T_a = +25^\circ C$)	±0.3mA max, for primary voltage $V_N=0$			
T_d	Temperature drift	I_M of 0.05%/°C (-25°C...+70°C)			
L	Linearity	0.1%			
T_r	Response time	40...200μS			
f	Frequency bandwidth	0...20KHz			
T_a	Operating temperature	-25°C...+70°C			
T_s	Storage temperature	-40°C...+85°C			
I_c	Current consumption	10mA+ I_M (Measuring current)			
R_s	Secondary resistance	60Ω ($T_a = +70^\circ C$)			
R_N	Primary resistance	1.8KΩ+R1 (Build in resistor) ($T_a = +70^\circ C$)			
W	Weight	650g			

Dimensions (mm):



Connection:



Connection:

Primary terminals:

IN+: input positive voltage

IN- : input negative voltage

*...Nominal voltage

Secondary terminals:

+: supply voltage +12...15V

- : supply voltage -12...15V

M: output



1. Output I_M is positive when a positive voltage V_N is applied on the terminal IN+.
2. The sensor is directly connected to the primary voltage V_N by the terminals IN+ and IN- (R_1 is built into the sensor.).
3. A voltage output V_M is obtained by connecting a resistor R_M between M and 0V.

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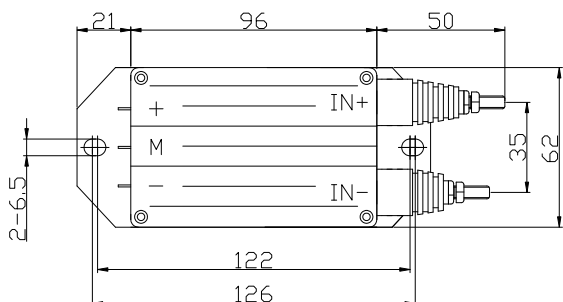
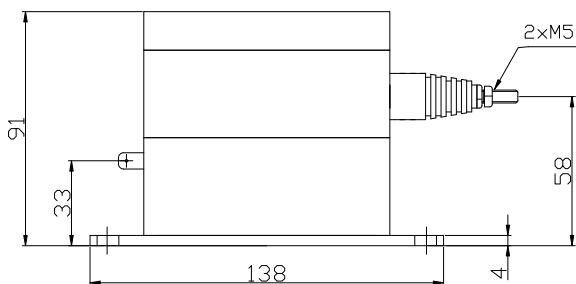
SENSOR Module CHV-100/*A

$V_N = 2500...3000V$

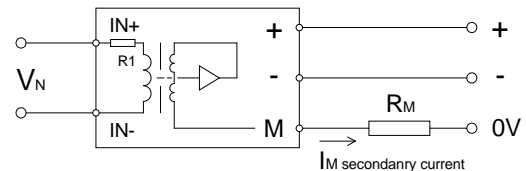
Specifications: Closed loop Hall voltage sensor, Nominal voltage 2500...3000V RMS for measuring of voltage: AC/DC/pulsed

Type	CHV-100/2500A	CHV-100/3000A	
V_N	Nominal voltage (RMS)	2500V	3000V
V_P	Measuring range (V_{P-P})	0...±3750V	0...±4500V
R_M	Measuring resistance	R_M min	R_M max
	($V_c = \pm 12...15V$)	0Ω	150Ω
I_M	Output current	Nominal output current 25mA, for primary nominal voltage V_N	
KN	Turns ratio	30000:2000	
X	Accuracy ($T_a = +25^\circ C$)	$V_N \pm 0.5\%$	
V_c	Supply voltage	$\pm 12...15V (\pm 5\%)$	
V_i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.	
I_{off}	Offset current ($T_a = +25^\circ C$)	$\pm 0.3mA$ max, for primary voltage $V_N = 0$	
T_d	Temperature drift	I_M of 0.05%/°C (-25°C...+70°C)	
L	Linearity	0.1%	
T_r	Response time	40...200μS	
f	Frequency bandwidth	0...20KHz	
T_a	Operating temperature	-25°C...+70°C	
T_s	Storage temperature	-40°C...+85°C	
I_c	Current consumption	10mA+ I_M (Measuring current)	
R_s	Secondary resistance	60Ω ($T_a = +70^\circ C$)	
R_N	Primary resistance	1.8KΩ+R1 (Build in resistor) ($T_a = +70^\circ C$)	
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Connection:



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