

Hall Current sensor- TC501-OCS

$I_{PN}=100..500A$

For the electronic measurement of currents:DC,AC,pulsed,mixed,
 with a galvanic isolation between the primary(high power)
 circuit and the secondary(electronic) circuit.



RoHS COMPLIANT



● Operating performance (AT =25°C)

Performance	Model	TC101 OCS	TC201 OCS	TC301 OCS	TC401 OCS	TC501 OCS
Primary nominal r.m.s. current	I_{PN} (A)	100	200	300	400	500
Primary current measuring range	I_P (A)	0~±200	0~±400	0~±600	0~±800	0~±1000
Supply voltage	V_{CC}	±15V (±5%)				
Output voltage	V_{OUT}	4V ±1% @± I_{PN} , $R_L=10K\Omega$				
Current consumption	I_C	≤±10mA @ ± I_{PN}				
Offset voltage	V_O	<±0.03V @ $I_P=0, T_A=25^\circ C$				
Thermal drift of V_O	V_{OT}	≤±0.5mV/°C				
Thermal drift of V_{OUT}	$TC\epsilon_G$	<±0.04%/°C				
Response time	t_r	<5µs				
Linearity	ϵ_L	≤±1% @0~± I_{PN}				
Accuracy	X	±1% @ I_{PN}				
Hysteresis offset voltage	V_{OH}	≤±20mV @±3 $I_{PN} \rightarrow 0$				
Isolation voltage	V_d	2.5KV @50(60)HZ/1min				
Frequency bandwidth	f	0~50KHz				

● General data

Operating temperature	T_O	-25 ~ +85°C
Storage temperature	T_S	-40 ~ +85°C
Mass	m	58g
Note	Insulated plastic case recognized according to UL 94-V0	

● Applications

◆AC variable speed drives and servo motor drives	◆Static converters for DC motor drives
◆Battery supplied applications	◆Switched Mode Power Supplies(SMPS)
◆Uninterruptible Power Supplies(UPS)	◆Power supplies for welding applications

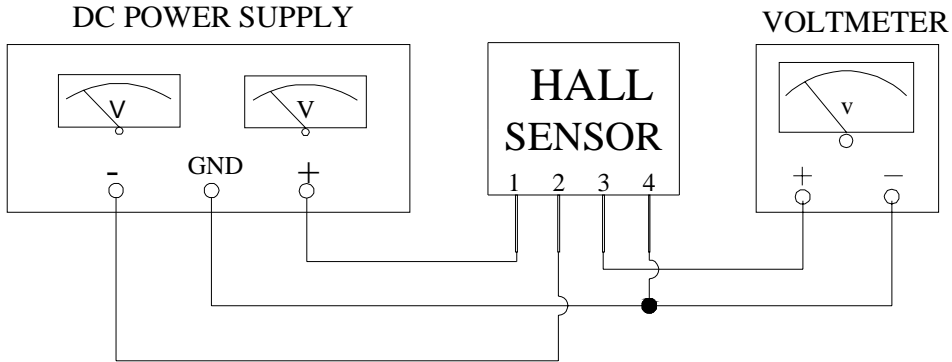
● Advantages

◆No insertion losses	◆Only one design for wide current ratings range
◆Low temperature drift	◆High immunity to external interference
◆Low power consumption	◆Current overload capability

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● Connection



● Dimensions (Unit:mm/inch)

