

AC/DC Current transducer DHR-C10

The transducer for the electronic measurement DC & distorted AC waveforms current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). True RMS 0-10V voltage output.



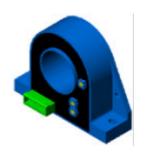
CE

Elec	trical	data		
Primary Nominal DC & AC Current I _{PN} (A.t.RMS)		Primary AC Current Max. Peak Value I _P (A)	Analogue Output Signal V _{OUT} (VDC)	Туре
100 200 300 400 500 600 1000		600 600 1000 1000 1800 1800	0-10 0-10 0-10 0-10 0-10 0-10	DHR 100 C10 DHR 200 C10 DHR 300 C10 DHR 400 C10 DHR 500 C10 DHR 600 C10 DHR 1000 C10
R _L V _C	Supply Currer Limita	resistance y voltage nt Consumption tion of voltage output (o paded input current (Ar	•	\geq 10 k Ω +20 50 V DC 30 mA < 14 V 30000 At
Accu	ıracy-	Dynamic perform	ance data	
X • • • • • • • • • • • • •	Accuracy @ \mathbf{I}_{pN} , $\mathbf{T}_{\mathrm{A}} = 25^{\circ}\mathrm{C}$ (without offset) Linearity (1% of \mathbf{I}_{PN} $\pm \mathbf{I}_{\mathrm{PN}}$) Electrical offset voltage, $\mathbf{T}_{\mathrm{A}} = 25^{\circ}\mathrm{C}$ Thermal drift of \mathbf{V}_{OE} (-20+60 °C) (-40+70 °C) Thermal drift of the gain (% of reading) Response time @ 90% of \mathbf{I}_{P} Frequency bandwidth (\pm 1%)			$<\pm 1$ % of I_{PN} $<\pm 1.0$ % of I_{PN} $<\pm 1.0$ % of I_{PN} ± 1 mV/K ± 2.0 mV/K ± 0.1 %/K < 150 m s DC 206000Hz
Gen	eral d	ata		
T _A T _S	Ambie Mass Protec	ent operating temperatent storage temperaturent type classification		-40 +70 °C -40 +85 °C 260 g IP20 V0

<u>Notes</u>: Installation and maintenance should be done with power supply disconnected. The operator must have accrediation to install this material.

The users must take care of all protection gurantee against electrical shock.

$I_{PN} = 100..1000 A$



Features

- VFD and SCR waveforms current measurement
- True RMS output
- Panel mounting
- Eliminates insertion loss

Advantages

- Large aperture for cable up to Ø32mm
- High isolation between primary and secondary circuits
- · Easy to mount

Applications

- VFD Controlled Loads:
 VFD output indicates how the motor and attached load are operating.
- SCR Controlled Loads:
 Acurate measurement of phase angle fired or burst fired (time proportioned) SCRs. Current measurement gives faster response than temperature
- Switching Power Supplies and Electronic Ballasts:

measurement.

True RMS sensing is the most accurate way to measure power supply or ballast input power.

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Current Transducer DHR-C10

Isolation characteristics

 $V_{\rm b}$ Rated Voltage 1000 with IEC 61010-1 acc. to the 61326 standards and following conditions:

- Single insulation

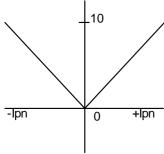
- Over voltage category CAT III
- Pollution degree PD2

	- None uniform field		
V _d	R.m.s. voltage for AC insulation test, 50Hz, 1min	5	kV
dCp	Creepage distance	11	m m
dCl	Clearance distance	11	m m
CTI	Comparative tracking index (Group I)	600	

Notes :

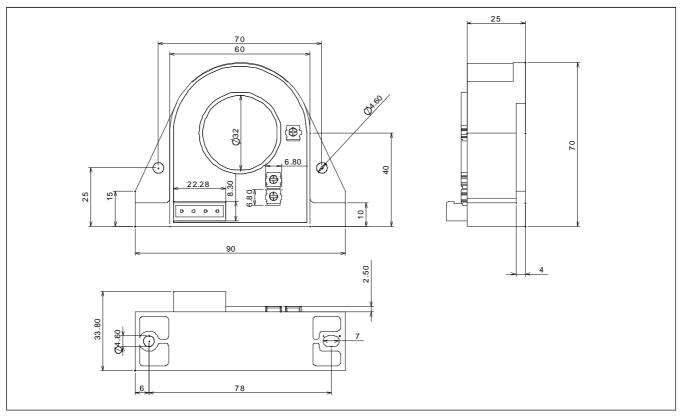
Output polarity with DC input

Output in V



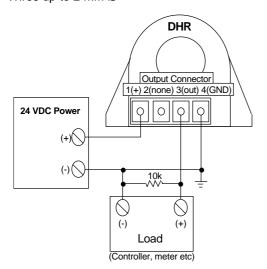


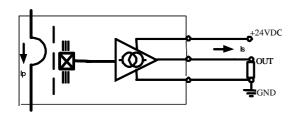
Dimensions DHR-C10 (in mm. 1 mm = 0.0394 inch)



Connections

Wires up to 2 mm ∅





Mechanical characteristics

General tolerance ±1 mm
 Primary aperture Ø 32.0 mm
 Panel mounting 4 holes Ø 4.6 mm
 Distance between holes 70.0 mm & 78 mm

(see above dimensions)

For panel mounting, replace M4 screws by new one (not supplied) with appropriate length to panel's thickness.

Safety



This transducer must be used in electric/electronic equipment with respect to applicable standards and safety requirements in accordance with the following manufacturer's operating instructions.



Caution, risk of electrical shock

When operating the transducer, certain parts of the module can carry hazardous voltage (eg. primary busbar, power supply). Ignoring this warning can lead to injury and/or cause serious damage.

This transducer is a built-in device, whose conducting parts must be inaccessible after installation.

A protective housing or additional shield could be used. Main supply must be able to be disconnected.

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LEM reserves the right to carry out modifications on its transducers, in order to improve them, without previous notice.

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