

# **AC/DC Current transducer DHR-C420**

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 4-20mA current output.





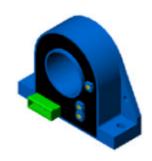
Elec	trical	data			
Primary No DC & AC C I <sub>PN</sub> (A.t.R	Current	Primary AC Current Max. Peak Value I <sub>P</sub> (A)	Analogue Output Signal I <sub>OUT</sub> (mADC)	Туре	
100 200 300 400 500 600 1000		600 600 1000 1000 1800 1800	4-20 4-20 4-20 4-20 4-20 4-20	DHR 100 C420 DHR 200 C420 DHR 300 C420 DHR 400 C420 DHR 500 C420 DHR 600 C420 DHR 1000 C420	
<b>R</b> <sub>L</sub> <b>V</b> <sub>C</sub> <b>I</b> <sub>C</sub>	Supply Currer Limitat	resistance voltage (loop powere t consumption ion of output current aded input current (Ar		< 300 +20 50 V 30 mA + I <sub>ou</sub> < 25 30000	
Accu	racy-l	Dynamic perform	ance data		
X  e L I OE I OT  TCe t f	Lineari Electric Therm Therm Respo Freque	acy @ $\mathbf{I}_{PN}$ , $\mathbf{T}_{A} = 25^{\circ}\text{C}$ (wity (1% of $\mathbf{I}_{PN}$ $\pm \mathbf{I}_{PN}$ ) cal offset current, $\mathbf{T}_{A} = 4$ ald drift of $\mathbf{I}_{OE}$ (-20+60 (-40+70 ald drift of the gain (% onse time @ 90% of $\mathbf{I}_{P}$ ency bandwidth ( $\pm$ 1%)	25°C °C) °C) of reading)	±3.2 μ	of I <sub>PN</sub> mA LA/K LA/K W/K m s
Gen	eral d	ata			
T <sub>A</sub> T <sub>S</sub> m	Ambie Mass Protec	nt operating temperatint storage temperatur tion type classification		-40 +70 -40 +85 260 IP20 V0	°C °C g

Notes: 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
- 4-20mA current 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 ho
  - 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 measurement.
- Switching Power Supplies and Electronic Ballasts:

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

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## **Current Transducer DHR-C420**

### **Isolation characteristics**

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

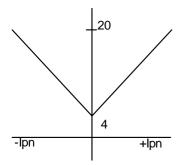
- Single insulation
- Over voltage category CAT III
- Pollution degree PD2

	- None uniform field		
<b>V</b> <sub>d</sub>	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:

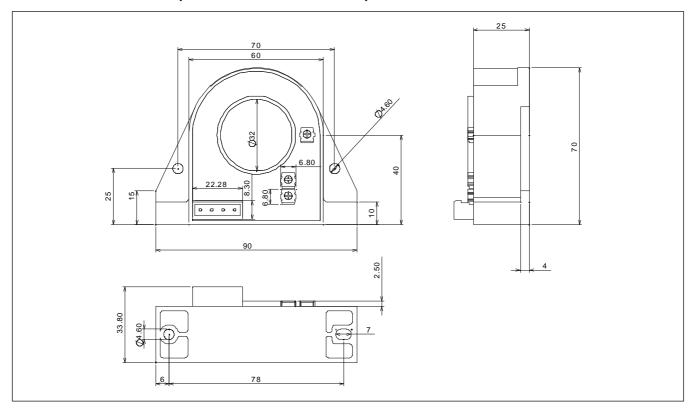
Output polarity with DC input

## Output in mA



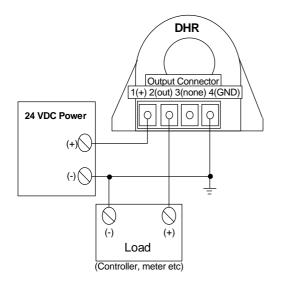


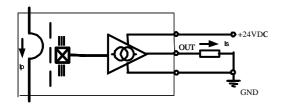
## Dimensions DHR-C420 (in mm. 1 mm = 0.0394 inch)



### 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 mm & 78 mm (see above drawings)

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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