DESCRIPTION

GIC-xxxz transducers are able to measure DC currents in the presence of higher levels of AC. This enables accurate measurement of Geomagnetically Induced Currents (GIC) on power grids, and of the DC components potentially present in Photo-Voltaic system and inverters. The device operates over a wide dynamic range and maintains low-level accuracy even after a large over-range. The GIC’s inherently low residual effect eliminates the need to degauss in all but extreme circumstances. The split-core enclosure, with captive hardware and outdoor rating, makes installation easy and does not require circuit interruption.

FEATURES

- High resolution (1000:1)
- Low residual offset
- Split-core
- Bidirectional
- Non-contact
- Input/Output isolation
- Low power consumption
- Outdoor installation
- Wide temperature range
- Conduit attachment (Rigid 1/2" NPT)

MODEL SELECTION

MODEL NUMBER

GIC—XXXZ

<table>
<thead>
<tr>
<th>XXX</th>
<th>DC Range</th>
<th>Z</th>
<th>Output Type</th>
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<tbody>
<tr>
<td>051</td>
<td>±0-50Adc</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>101</td>
<td>±0-100Adc</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>151</td>
<td>±0-150Adc</td>
<td>X5</td>
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<tr>
<td>201</td>
<td>±0-200Adc</td>
<td></td>
<td>E</td>
</tr>
<tr>
<td>301</td>
<td>±0-300Adc</td>
<td></td>
<td>EM</td>
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</table>

ORDERING INFORMATION

Example:
600Adc Input 0±1mAdc Outputs
GIC-601B

SPECIFICATIONS

INPUT

Current Range ......................................... See model selection
Over-range (w/o damage) .......................... >8000A
Bandwidth... (1.5Hz low pass filter on output) .. dc to 1.5Hz

DIELECTRIC TEST

Input window ............................................. 2200Vac
Inst. Power to output ............................... 1kVdc
Insulation class ....................................... 600Vac

INSTRUMENT POWER

Standard .............................................. 24Vac/24Vdc, ±10%
Option "-12" ........................................... 12Vac/12Vdc, ±10%
Current...nominal .................................. 80mA
maximum ....................................... 100mA

TEMPERATURE

Operating range .................................... -40ºC to +85ºC
Temperature effect ................................ ±0.025%/ºC
Storage .............................................. -40ºC to +85ºC

OUTPUT

Scaling...Models B, D, X5 ... 0 to ±FS dc in = 0 to ±FS out
Model EM
-FS dc/0+/FS dc in = 4/12/20mAdc out
Model E (unidirectional)
0-FS dc in = 4-20mAdc out
Loading...Models E and EM ......................... 0-500Ω
Model B .............................................. 0-10kΩ
Models D and X5 ................................... >2kΩ
Response time (90%) .............................. <350ms (typical)

ACCURACY

Linearity, offset, setpoint and repeatability .......... ±0.5% F.S.
Over-range residual offset ...0.0007A/A of input current
(max offset = 350mA)
Linearity .............................................. ±0.1% F.S.

PHYSICAL

Weight .................................................. 2.0lbs
DC CURRENT SENSOR
(GEOMAGNETICALLY INDUCED CURRENTS)

CASE DIMENSIONS

Dimensions are in inches
Tolerance is ±0.03 inches

CONNECTION DIAGRAM

#8 SPADE TERMINALS
(4 PLCS)

RED  24V (+)
BLK  COM.
GREEN OUTPUT (+)
WHT  OUTPUT (-)
BRAID  SHIELD

8 FT CABLE