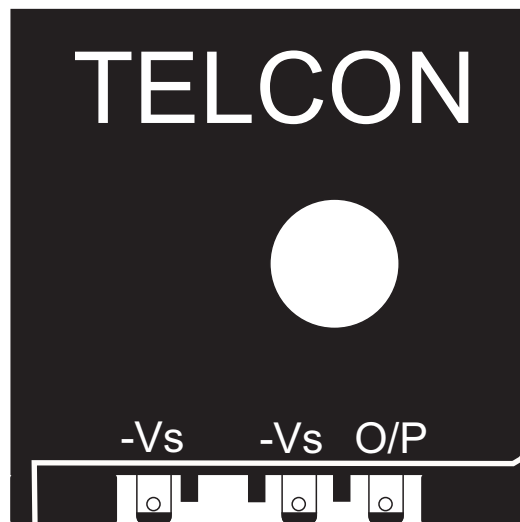




Speciality Magnetic Components  
QUALIFIED to ISO 9001:2008

## Panel Mounting Hall Effect Current Transformer Type HT100



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The HT100 is a closed loop Hall Effect Current Transformer suitable for measuring currents up to 100A. The product provides an output current, galvanically isolated from the primary conductor into an external load resistance.

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### **Features**

- High Accuracy
- 3 kV Proof Stress
- Fast Response
- Designed in Quality

### **Benefits**

- Galvanic Isolation
- Ease of assembly
- High Reliability
- Non Invasive

### **Applications**

- Variable Speed Drives
- UPS Systems
- D.C. Power Supplies
- Low Frequency Current Measurement
- Overcurrent Protection
- Robotics
- Frequency Inverters
- Power Factor Monitoring

## TECHNICAL DATA

|                             |                                |
|-----------------------------|--------------------------------|
| Nominal Primary Current     | 100A                           |
| Turns Ratio                 | 1000:1                         |
| Nominal Power Supply        | $\pm 15V \pm 5\%$              |
| Power Supply Current        | 16mA per rail + output current |
| Minimum Load Resistance     | 0 $\Omega$ (0-100A)            |
|                             | 15 $\Omega$ (0-200A)           |
| Operating Temperature Range | 0 to +70°C                     |
| Storage Temperature Range   | -25°C to +85°C                 |

## SPECIFICATION

|  |  |
|--|--|
| Linearity                                  | 0.1% of nominal primary current.                           |
| Limit of Linearity (with 30 $\Omega$ load) | $\pm 200A$ peak value                                      |
| Overall Accuracy                           | 1% of nominal primary current                              |
| Output Zero Adjustment                     | $< \pm 500\mu A$ at primary current +0A                    |
| Zero Offset/Temperature                    | $< 5\mu A/^{\circ}C$                                       |
| Zero Offset/Supply Variation               | $< 5\mu A/V$   |
| Coil resistance                            | 14 $\Omega$  |
| Bandwidth (-1dB)                           | dc to 100kHz min.  |
| di/dt following                            | $> 100A/\mu s$   |
| Delay Time                                 | 0.1 $\mu s$  |
| dV/dt Immunity                             | 10kV/ $\mu s$  |
| Proof Stress Voltage                       | 3kV a.c., rms, 50Hz for 1 minute, bore to output terminals |

## GENERAL DATA

|                       |  |
|-----------------------|--|
| Weight                | 110g nominal   |
| Housing               | Modified Polyphenylene Oxide   |
| Terminations          | 3 off 4.8mm Euro Standard Faston Terminals                                       |
| Signal Sense          | Positive output obtained when current flows in direction of arrow                |
| Conductor Temperature | The temperature of the primary conductor should not exceed 100°C                 |
| Conductor Position    | Optimum dynamic performance is achieved with a single conductor filling the bore |

## DIMENSIONS]

