



IT 150-S

HIGH ACCURACY CURRENT TRANSDUCER

Basic specifications	
Primary current I (max.)	0-150 A
Polarity	Bipolar
Output current (max.)	0-200 mA
Overload capacity : Normal operation Basic function maintained Fault	100 % 110 % 500 % (0.1 s)
External Burden resistor - see fig. 1 : Max. Min.	200 Ω 5 Ω
Current transfer ratio	750 : 1
Linearity	< 1 ppm
Measuring/ratio stability : Initial v.s. temperature v.s. time	< 2 ppm < 0.3 ppm/°C < 1 ppm/month
Offset : Initial v.s. temperature	8 μ A 0.1 μ A/°C
Output noise (RMS) : DC .. 10 Hz DC .. 10 kHz DC .. 50 kHz	< 0.04 μ A < 2.4 μ A < 8 μ A
Feedback noise (RMS), DC .. 50 kHz (measured on the primary current cable - one turn)	< 10 μ V (typical 5 μ V)
Busbar free zone (from center)	r > 70 mm
di/dt accurately followed	> 100 A/ μ s
Bandwidth (3 dB, small signal 0.5 %)	DC to 100 kHz
Test voltage (pin 4 - ground to a $\varnothing$ 25 busbar)	5 kV AC (RMS)
Operating temperature	10-50°C
Input power requirement	max. power consumption 5 VA $\pm$ 15 V < $\pm$ 5 % + 15 V : 200 mA, - 15 V : 50 mA + compensation current
Mechanical dimensions	122 x 98 x 57 mm hole for busbar or cable : $\varnothing$ 26 mm
Weight	approx. 1 kg

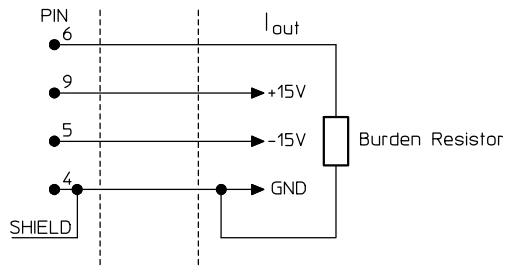
All ppm figures refer to max. output current. Specifications are subject to change without notice.
We recommend that a shielded output cable and plug are used to ensure the maximum immunity against electrostatic fields.

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IT 150-S INSTALLATION

IT 150

USER SIDE



Connection of Burden Resistor.
Burden Resistor value : see fig. 1

BURDEN RESISTOR VOLTAGE

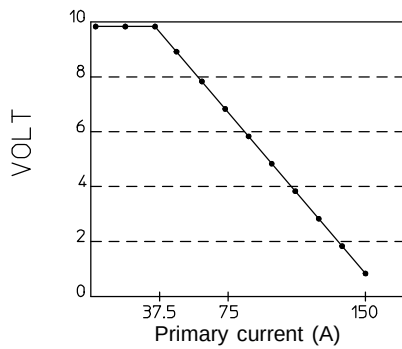
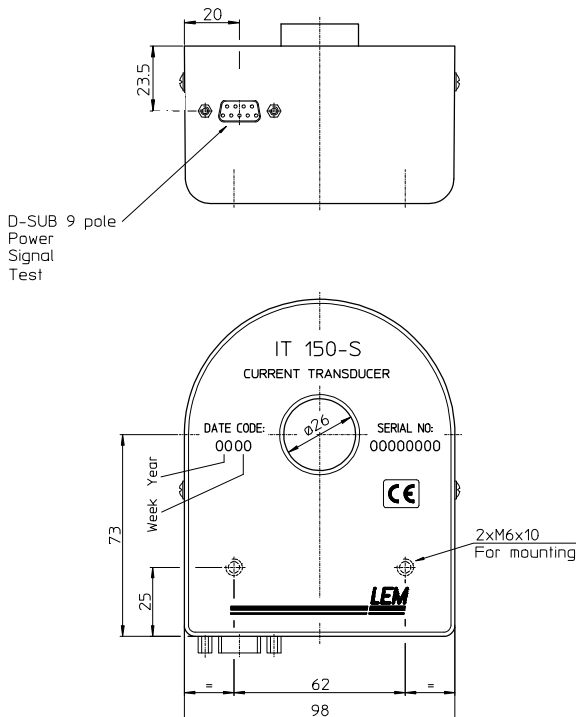


Fig. 2.
The Voltage that can be achieved across the externally connected Burden Resistor as a function of the primary current.

Dimensions IT 150-S



MAX BURDEN RESISTOR

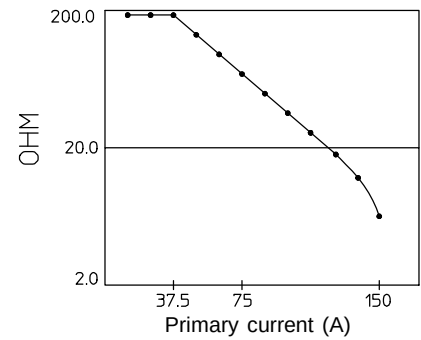


Fig. 1.
Relationship between the externally connected Burden Resistor and the primary current.

9-POLE D-SUB

- Pin 1 : (For factory use only)
- Pin 2 : (Test pin for zero detector for factory use only)
- Pin 4 : 0 V and electrostatic shield
- Pin 5 : - 15 V/50 mA + compensation current
- Pin 6 : Current output
- Pin 7 : (For factory use only)
- Pin 9 : + 15 V/200 mA + compensation current.

