

## ULTRASTAB 867-1000IHF CURRENT TRANSDUCER

<b>PRELIMINARY SPECIFICATIONS</b>	
Primary current I (max.)	0 to $\pm 1000\text{A}$
Polarity	Bipolar
Output current (max.)	0 to $\pm 1000\text{ mA}$
Overload capacity: Normal operation Basic function maintained Fault	100% 110% 400% (0.1 s.)
External Burden resistor - see fig. 1: Max. Min.	3 $\Omega$ 0 $\Omega$
Current transfer ratio	1000:1
Linearity	< 3 ppm
Measuring/ratio stability: Initial v.s. temperature v.s. time	< 2 ppm < 0.3 ppm/ $^{\circ}\text{C}$ < 1 ppm/month
Offset: Initial v.s. temperature	< 50 ppm < 0.5 ppm/ $^{\circ}\text{C}$
Sensitivity to power supply changes	< 3 ppm/%
Output noise (RMS): DC - 10 Hz DC - 10 kHz DC - 50 kHz	< 0.05 ppm < 3 ppm < 6 ppm
Feedback noise (RMS), DC - 50 kHz (measured on primary cable – one turn)	< 5 $\mu\text{V}$
Busbar free zone to be within linearity specification: Cylinder shape (diameter x length)	$\varnothing 220 \times 220\text{ mm}$

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<b>PRELIMINARY SPECIFICATIONS</b>	
Slew rate (10-90%)	> 100A/ $\mu$ s
Bandwidth ( $\pm 0,4$ dB, small signal 20 A pp)	DC to 150 kHz
Test voltage (pin 4 - ground to a $\phi$ 30 busbar)	5 kV AC (RMS)
Operating temperature Storage temperature	10 – 50°C 0 – 60°C
Input power requirement	Max. power consumption 17 W $\pm 15$ V regulated < $\pm 5\%$ $\pm 70$ mA + compensation current
Emission complying standard Immunity complying standard	EN 50081-2 EN 50082-2-1995
Operating humidity	20 – 80% RH
Mechanical dimensions ( W x H x D ) Socket length Weight	104 x 106 x 85 mm 128 mm $\phi$ 30 mm hole approx. 1.0 kg

All ppm figures refer to max. output.

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.

### 9-pole D-SUB (Male)

Pin configuration:

Pin 1	Current return
Pin 2	N.C.
Pin 3	Normal operation status
Pin 4	GND
Pin 5	-15V supply voltage
Pin 6	Current output
Pin 7	N.C.
Pin 8	Normal operation status
Pin 9	+15V supply voltage
House	Electrostatic shield

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