

Ultrastab 866-600

Last update: 21.08.2007

Part no.:8100088201

Current transducer

| Parameter | Symbol | Condition | Value | Unit |
|---------------------------------|----------------------------------|-----------|-----------|-------------|
| Primary current | I_p | | | |
| Nominal primary current | I_{pn} | | ± 600 | A |
| Polarity | | | Bipolar | |
| Secondary current | I_s | | | |
| Nominal secondary current | I_{sn} | | ± 400 | mA |
| External burden resistor | R_b | | | |
| Max. | $R_{b, max}$ | | 2.5 | Ω |
| Min. | $R_{b, min}$ | | 0 | Ω |
| Current transfer ratio | N | | 1500 | |
| Overload capacity | | | | |
| Max. nondestructive overload | $I_{p, max}$ | @ 0.1s | 500 | % I_{pn} |
| Min. overload trip value | $I_{p, trip}$ | | 110 | % I_{pn} |
| DC accuracy | | | | |
| Offset | | | | |
| Initial | I_{so} | | < 20 | ppm |
| Drift vs. Temp. | $I_{so, temp}$ | | < 0.2 | ppm / K |
| Drift vs. Time | $I_{so, time}$ | | < 1 | ppm / month |
| Drift vs. supply voltage | $I_{so, supply}$ | | < 1.5 | ppm / % |
| Transfer ratio | | | | |
| Deviation | N_d | | < 2 | ppm |
| Deviation vs. Temp. | $N_{d, temp}$ | | < 0.3 | ppm / K |
| Linearity | | | | |
| Deviation | X_d | | < 1 | ppm |
| Output noise | $I_{s, noise}$ | | | |
| | | 0 - 10Hz | < 0.05 | ppm (RMS) |
| | | 0 - 10kHz | < 3 | ppm (RMS) |
| | | 0 - 50kHz | < 10 | ppm (RMS) |

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| Dynamic response | | | | |
| Slew rate | dI/dt | 10 - 90% | > 100 | A / μ S |
| Bandwidth | f | | | |
| ± 3 dB | | < 0.5% I _{pn} | 100 | kHz |
| Busbar noise | U_b | | | |
| Measured on primary cable, one turn | | DC - 50kHz | < 10 | μ V RMS |
| Busbar free zone | | | | |
| Length | l | | 150 | mm |
| Radius | r | | 75 | mm |
| Test voltages | | | | |
| Busbar to GND | V _{t, b} | | 5000 | VAC RMS |
| Power supply | | | | |
| Supply voltage | V _s | $\pm 5\%$ | ± 15 | V |
| Maximum quiescent current | I _q | | ± 200 | mA |
| Maximum current consumption | I _{max} | | ± 600 | mA |
| Operating environment | | | | |
| Temperature | T _a | | 10 - 50 | $^{\circ}$ C |
| Humidity | RH _a | Noncondensing | 20 - 80 | %RH |
| Storage environment | | | | |
| Temperature | T _s | | -20 - 85 | $^{\circ}$ C |
| Humidity | RH _s | Noncondensing | 20 - 80 | %RH |

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| Mechanical dimension | | | | |
| Width | W | | 122 | mm |
| Height | H | | 98 | mm |
| Depth | D | | 65 | mm |
| Weight (approx.) | m | | 1 | kg |
| Inner hole diameter | O | Minimum | 25.4 | mm |

Notes:

- 1: All ppm figures refer to nominal current
- 2: Specifications is subject to change without notice