

CURRENT MEASUREMENT PROBES

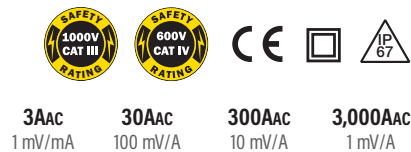
MINIFLEX® SERIES

MODEL MA114

Provide a welcomed solution when accessing electrical conductors in tight places or clamping onto cable bundles

FEATURES

- 14-inch flexible sensor capable of clamping around a 4.7 inch cable or bundle
- Waterproof sensor rated to IP 67
- User selectable ranges of 3, 30, 300 and 3000 Amps
- 600V CAT IV, 1000V CAT III rated
- Not effected by magnetic saturation, provides excellent linearity and low phase shift
- Battery or USB powered for long term use
- Red LED indicates overload condition
- Positive click locking sensor eliminates disconnection errors
- Banana plug termination compatible with multimeters, data loggers and other instruments



SPECIFICATIONS

| MODEL | MA114 |
|--|---|
| Operating Voltage | 600 VRMS (Cat. IV) 1000 VRMS (Cat. III) |
| Battery | Two 1.5 V batteries (NEDA 15A, IEC LR6, AA) +5 VDC with type B micro-USB connector |
| Battery life ⁽²⁾ | 300 hours typical 1,800 10-minute approx. measurements |
| Consumption | 10 μ A (OFF position) 90 μ A (sleep mode) |
| Battery Level Indication | Flashing green LED (batteries voltage > 2 V) |
| Influence of battery voltage | $\leq 0.1\%$ (0.02% typical) from 3.1 V to 2 V |
| Influence of temperature | $\leq 0.5\%$ (0.15% typical) of output signal per 10°K |
| Influence of relative humidity | $\leq 0.5\%$ (0.2% typical) of output signal |
| Influence of conductor position in the sensor ⁽³⁾ | $\leq 2.5\%$ (1% typical) |
| Influence of sensor deformation ⁽⁴⁾ | $\leq 1\%$ (0.2% typical) |
| Influence of adjacent conductor ⁽⁵⁾ | $\leq I_{ADJ} \times 1\%$ (2% near click-lock system) (0.2% typical) |
| Input impedance of the measuring instrument | $\geq 1 \text{ M}\Omega$ |
| Common mode rejection ⁽⁸⁾ | $\leq 80 \text{ dB}$ (100 dB typical) |
| Influence of the measurement instrument's impedance Z | $\leq 0.1\%$ at 10 k Ω |

| CALIBRE (I_N) | 3A | 30A | 300A | 3000A |
|-----------------------------|-------------------------------|---------------------------|--|--|
| Measurement Range | 0.08 to 3Aac | 0.5 to 30Aac | 0.5 to 300Aac | 0.5 to 3000Aac |
| Specified Measurement Range | 0.5 to 3Aac | 2A to 30A | 5 to 300Aac | 50 to 3000Aac |
| Output/input ratio | 1 V/A (mV/mA) | 100 mV/mA | 10 mV/mA | 1 mV/A |
| Bandwidth at -3 dB | 10 Hz to 10 kHz | 10 Hz to 20 kHz | 10 Hz to 20 kHz | 10 Hz to 20 kHz |
| Frequency limitation | Null | | | See curve |
| Accuracy | $\leq 1\% + 40 \text{ mV}$ | $\leq 1\% + 4 \text{ mV}$ | $\leq 1.5\% + 0.4 \text{ mV}$ ($I \geq 10\% I_N$) $\leq 1\% + 0.4 \text{ mV}$ ($I \geq 10\% I_N$) | $\leq 1.5\% + 0.04 \text{ mV}$ ($I \geq 10\% I_N$) $\leq 1\% + 0.04 \text{ mV}$ ($I \geq 10\% I_N$) |
| Phase shift | $\leq 1^\circ$ (0.5° typical) | | | |

| CATALOG NO. | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

2153.41 MiniFlex' 14" Model MA114 (3A/1mV/A, 30A/100mV/A, 300A/10mV/A, 3000A/1mV/A)