

MiniFlex® Model MA193

The MiniFlex® Model MA193 sensor can only be used as an accessory for the following power quality meters: Model 3945-B, 8220, 8230, 8335 & PEL Series.

Identify the sensor with the color rings supplied with the instrument if you are using multiple MiniFlex® sensors.

| Reference Conditions | |
|----------------------------|----------------------------------|
| Parameter | Conditions |
| Temperature | 64° to 82°F (18° to 28°C) |
| Humidity | 20 to 75% RH |
| Frequency | 40 to 100Hz |
| Type of signal | Sinusoidal |
| Conductor position | Centered in the coil |
| External DC magnetic field | <40 A/m (earth's magnetic field) |
| External AC magnetic field | None |
| External electric field | None |

| Current Measurement | | |
|------------------------|---|----------------------------|
| Range | 10 to 100A _{AC} | 100 to 1000A _{AC} |
| Input/Output Ratio | 117.3mV / 3000A _{AC} at 50Hz; 140.8mV / 3000A _{AC} at 60Hz Double-insulated lead with specific 4-pin plugs | |
| Accuracy with PowerPad | ± (3%) | ± (2%) |
| Phase shift at 50Hz | -90° ± 0.5° (sensor only) | |

| Variations in Nominal Range for Use | | |
|---|----------------------------------|-----------------------------------|
| Influence Quantities | Range of Influence | Accuracy |
| Temperature | -4° to 140°F (-20° to 60°C) | 0.2% / 18°F (10°C) |
| Humidity | 10 to 90% RH | 0.5% |
| Frequency response | 10Hz to 20kHz | 0.5% |
| Position of conductor in the sensor | Any position | <2% and 6% near the snap device |
| Adjacent conductor carrying alternating current | Conductor in contact with sensor | <0.7% and 6% near the snap device |

| Environmental Conditions | |
|--------------------------|------------------------------|
| Indoor Use | |
| Operating Temperature | 14° to 122°F (-10° to 50°C) |
| Storage Temperature | -40° to 158°F (-40° to 70°C) |
| Altitude | < 2000m |
| Pollution level | 2 |

| Mechanical Specifications | |
|---------------------------|---------------|
| Maximum Clamping Diameter | Ø 2.75 (70mm) |
| Sensor length | 10" (250mm) |
| Cable length | 10 ft (1.50m) |
| Weight | 1.94oz (55g) |

| Safety Specifications | |
|-------------------------------|--|
| Electrical safety | IEC 61010-2-032 (Ed. 2 of 2003) |
| Maximum rated voltage | 600V CAT IV, 1000V CAT III |
| Electromagnetic Compatibility | Meets CEM and DBT directives required for CE and product norm IEC 61326-1 (Ed. 97) + A1 (Ed. 98) |



15 Faraday Drive • Dover, NH 03820
(603) 749-6434 • Fax (603) 742-2346
www.aemc.com

99-MAN 100343 - v4