

# MiniFlex® Model MA193

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

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 <sub>AC</sub>	100 to 1000A <sub>AC</sub>
Input/Output Ratio	117.3mV / 3000A <sub>AC</sub> at 50Hz; 140.8mV / 3000A <sub>AC</sub> 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	5ft (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)



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