

FCT-XX-3000A - Flexible Current Sensor



Easy to install current sensor, connects directly to your PQube®3

Easy to install, especially in hard to reach areas and with large conductors

Connects directly to your PQube®3's current terminals

No integrator, no external power, no battery required

UL approved, RoHS and WEEE compliant



Specifications

Electrical characteristics	
Current range	3000A AC
Calibrated output VRMS at 1000 ARMS	85mV @ 50Hz (CT Ratio 1000:0.085) 102mV @ 60Hz (CT Ratio 1000:0.102)
Accuracy (at 25°C, 50 Hz)	± 0.5% of reading
Interchangeability variance	± 0.5% of reading
Linearity (10% to 100% of range)	± 0.2% of reading
Internal Resistance	157 Ω ± 15 Ω
Minimum load resistance	10kΩ
Bandwidth (-3dB)	10Hz to 20kHz
Phase Error (45 - 65Hz)	± 1°
Temperature coefficient	± 0.05% of reading / °C
Position sensitivity	± 2% of reading
Working voltage	1000V ACRMS or DC (Probe) 30V max (Output)
General Characteristics	
Operating temperature range	-20°C to 65°C
Storage temperature range	-40°C to 75°C
Operating humidity	15% to 85% (non condensing)
Degree of Protection	IP65
Probe and cable material	Alcryn 2070 NC, LATENE 7H2W V0
Safety	
Safety standards	EN 61010-1:2001, EN 61010-031:2002, EN 61010-2-032:2002
EMC	EN 61326-2-2:2006
1000 VRMS, Category III; 600 VRMS, Category IV; Pollution Degree 2 ROHS and WEEE compliant	

Order Information

Part Number	Loop Length	Diameter
FCT-24-3000A-00	60cm (24 inch)	19cm (7.5 inch)
FCT-36-3000A-00	90cm (36 inch)	29cm (11.5 inch)
FCT-48-3000A-00	120cm (48 inch)	38cm (15 inch)