

1630-2/1630-2 FC

Earth Ground Clamp

Users Manual

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Users Manual

Electrical Specifications

RF mode turned off

Frequency Range

Ingress Protection.......IEC 60529: IP30 with jaw closed

LCD

Temperature

Operating-10 °C to +50 °C

Storage-20 °C to +60 °C

Operating Humidity Non condensing (<10 °C)

≤90 % RH (at 10 °C to 30 °C)

≤75 % RH (at 30 °C to 40 °C)

≤45 % RH (at 40 °C to 50 °C)

(noncondensing)

Altitude

Data Logging Capacity >2000 data points

Safety

IEC 61557-1

CAT III 1000 V

Current Clamp for Leakage Current

Measurements IEC 61557-13: Class 2, ≤30 A/m

Resistance to Earth.....IEC 61557-5

Effectiveness of the Protective Measures.....IEC 61557-16: cutoff frequency 20 kHz (-3 dB)



Electromagnetic Compatibility (EMC)

InternationalIEC 61326-1: Portable Electromagnetic Environment

CISPR 11: Group 1, Class B, IEC 61326-2-2

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class B: Equipment is suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

Wireless Radio

Radio Frequency Certification......FCC ID:T68-FBLE IC:6627A-FBLE

General Specifications

Ground Loop Resistance

Frequency of measurement: 3.333 kHz.

Range	Accuracy ^[1] \pm (% of reading + Ω)	
0.025 Ω to 0.249 Ω	$1.5 \% + 0.020 \Omega$	
$0.250~\Omega$ to $0.999~\Omega$	$1.5 \% + 0.050 \Omega$	
1.000 Ω to 9.999 Ω	$1.5 \% + 0.100 \Omega$	
10.00 Ω to 49.99 Ω	$1.5 \% + 0.30 \Omega$	
50.00 Ω to 99.99 Ω	1.5 % + 0.50 Ω	
100.0 Ω to 199.9 Ω	3.0 % + 1.0 Ω	
200.0 Ω to 399.9 Ω	5.0 % + 5.0 Ω	
400 Ω to 599 Ω	10.0 % + 10 Ω	
600 Ω to 1500 Ω	20.00 %	
[1] Loop resistance with no inductance, conductor centered.		

AC Leakage Current mA

True rms, crest factor CF ≤3

Range	Resolution	Accuracy [1] ± (% of reading + mA)
0.200 mA to 3.999 mA	1 μΑ	2.0 % + 0.05 mA
4.00 mA to 39.99 mA	10 μΑ	2.0 % + 0.03 mA
40.0 mA to 399.9 mA	100 μΑ	2.0 % + 0.3 mA
0.400 A to 3.999 A	1 mA	2.0 % + 3 mA
4.00 A to 39.99 A	10 mA	2.0 % + 30 mA

- [1] Applies to signal frequency:
 - 40 Hz to 1 kHz with Filter set to OFF
 - · 40 Hz to 70 Hz with Filter set to ON