00.000

04.000

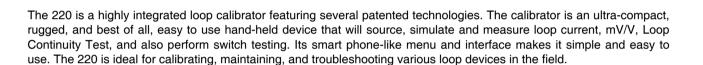
66



Additel 220 Multifunction Loop Calibrator

- Measure and source loop current, mV, and V
- Measure and source simultaneously
- Loop Continuity Test capability
- 24V loop supply with simultaneous current measurement
- 3 year warranty

OVERVIEW



FEATURES

Measuring and sourcing loop current, mV and V

Measures loop current up to 30mA with 0.1 μ A resolution Measures voltage signals up to 60 V, and mV signals up to 300 mV

Sources/sink loop current, mV and V

24V loop power supply with simultaneous current measurement

Simultaneous dual reading capability

Capture switch

Data statistics and analysis

Display max, min, peak-to-peak, average, and percentage simultaneously

Convert data to a real physical value through re-scaling function

On-demand logging

High-capacity storage with up to twenty thousand records On-line view, index, analyze, auto-curve, and list the data

Various sources and converting mode

Support linear, flow, valve, and 25% stepping source Auto-source of ramping and stepping Gauge span examination

"As Cal" on-site calibration tools

Four on-site calibration tools preset: loop indicator, sensor/transmitter, signal isolator/converter, and limit alarm/switch

- Support 2W transmitter connection
- Multi lingual interface

English, Simplified Chinese

Convenient tools

Calculator, thermocouple converter, HOLD screen lock

Display rate

4 readings/second

Easy to use

Smartphone-like menu and interface make the operation simpler and easier Ultra-compact, size 3.9" x 7.6" x 2.0" (100mm x 192mm x 52mm), and weight 1.6 lb (0.7 kg) One hand operation

Snapshot

Save and manage up to 100 snapshots

Display

3.5 inch TFT color screen

4, 5, or 6 digits adjustable display

Rugged

Rugged design for harsh environments.

Passed a 1-meter drop test

Three years warranty for the 220, and one year for the battery pack

Misuse protection and Electrical isolation

Up to 30V voltage on any two sockets and up to 1A current on current sockets will not damage the calibrator. The calibrator will return to normal condition as soon as the voltage or current is removed. Measuring, sourcing and loop power circuits are electrically isolated each other.

Rechargeable battery

Rechargeable Li-ion battery for 15 hours uninterrupted use.

Battery life will be reduced when 24V is applied. The rechargeable battery is replaceable.

- ISO17025 accredited calibration with data
- Firmware upgrade

Support firmware upgrade when available

Warranty: 3 years

Tel.: 03303 / 50 40 66

Fax: 03303 / 50 40 68

Additel 220

Multifunction Loop Calibrator



APPLICATIONS

The 220 loop calibrator is a process tool for measuring, sourcing and simulating mA, mV and V, captures switch values and provides 24V loop power. It is a high performance solution for calibration, repair and maintenance of various loops devices, Loop Continuity Test, and switch capture.

SPECIFICATIONS

Electrical Specifications

Measureme	asurement Accuracy		
	Range	Resolution	Accuracy
Voltage DC	-300.000 to 300.000 mV	1µV	0.01%RD+15μV
Voltage DC	-60.0000 to 60.0000 V	0.1mV	0.01%RD+3mV
Current DC	-30.0000 to 30.0000 mA	0.1μΑ	0.01%RD+1.5µA
Loop Continuity	0 to 2000.0 ohm	0.1Ω	0.02%RD+0.2Ω
Switch Test	For the contact with potential, the voltage within the range 3V to 24V.		

	Source Acc	uracy		
Voltage DC	-10.00 to 200.00 mV	0.01mV	0.02%RD+10.5μV	
	0 to 12.000 V	1mV	0.02%RD+0.6mV	
Current DC	0 to 22.000 mA	1µA	0.02%RD+1.1μA	
	DC24V	N/A	N/A	0.5V

General Specifications

Environmental Specifications	
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Humidity	<90%, non-condensing

Safety Specifications	
European Compliance	CE Mark

Mechanical Specifications		
Display	3.5 inch TFT color screen	
Electrical Connection	Ø4mm sockets and flat mini-jack thermocouple socket	
RS232 Interface	Standard RS232-DB9 socket	
Size	3.9" x 7.6" x 2.0" (100mm x 192mm x 52mm)	
Weight	1.6 lb (0.7 kg)	
Power Supply	Polymer Li-ion rechargeable battery,or 10V DC adaptor	
Battery	Rechargeable Li-ion battery (included)	
Battery Life	15 hours uninterrupted use Battery life will be reduced when 24V is applied	
Battery Charge	110V/220V external power adapter (included)	

ORDERING INFORMATION

Model Number ADT220

Accessories (included)		
9816-X	110V/220V external power adapter	1 pc
9712	Chargeable Li-ion battery	1 pc
9022	Test leads	2 sets(4 pcs)
9020	Short circuit cable 1 sets(
	User Manual	1 pc
	ISO17025 accredited calibration certificate	1 pc

^{*} Additel/Land software could be downloaded for free at www.additel.com

Optional Accessories		
Model number	Description	
9050	USB to RS232 (DB-9 Male) Adapter	
9050-EXT	RS 232 (DB9/M) extension cable, 9 feet	
9712	Spare chargeable Li-ion battery for multifunction calibrator	
9816	110V/220V external power adapter	
9906	Carrying case for multifunction calibrator	

ICS Schneider Messtechnik GmbH Briesestraße 59 D-16562 Hohen Neuendorf / OT Bergfelde