Additel 220 Multifunction Loop Calibrator



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





OVERVIEW

The 220 is a highly integrated loop calibrator featuring several patented technologies. The calibrator is an ultra-compact, rugged, and best of all, easy to use hand-held device that will source, simulate and measure loop current, mV/V, Loop Continuity Test, and also perform switch testing. Its smart phone-like menu and interface makes it simple and easy to use. The 220 is ideal for calibrating, maintaining, and troubleshooting various loop devices in the field.

FEATURES

Measuring and sourcing loop current, mV and V

Measures loop current up to 30mA with 0.1 μA 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.

- NIST Traceable Calibration with data
- Firmware upgrade
 - Support firmware upgrade when available
- Warranty: 3 years

Corporate Headquarters 22865 Savi Ranch Parkway Ste F Yorba Linda, CA 92887, USA Salt Lake City Office 802 Bamberger Dr, Suite C American Fork, UT 84003, USA

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

Measurement Accuracy

	Range	Resolution	Accuracy
Voltage DC	-300.000 to 300.000 mV	1µV	0.01%RD+15µV
	-60.0000 to 60.0000 V	0.1mV	0.01%RD+3mV
Current DC	-30.0000 to 30.0000 mA	0.1µA	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 Accuracy

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		

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)	

Phone: 714-998-6899 Fax: 714-998-6999 Email: sales@additel.com

ORDERING INFORMATION

- Model Number
 - ADT220

Accessories (included)		
110V/220V external power adapter	1 pc	
Chargeable Li-ion battery	1 pc	
Test leads	2 sets(4 pcs)	
Short circuit cable	1 sets(2 pcs)	
Manual	1 pc	
NIST traceable 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	
9712	Spare chargeable Li-ion battery for multifunction calibrator	
9816	110V/220V external power adapter for ADT22X and ADT672 calibrator	
9906	Carrying case for multifunction calibrator	

Corporate Headquarters 22865 Savi Ranch Parkway Ste F Yorba Linda, CA 92887, USA

Salt Lake City Office 802 Bamberger Dr, Suite C American Fork, UT 84003, USA

•