

OVERVIEW

The ADT220 is a highly integrated loop calibrator that features several patented technologies. The calibrator is ultra-compact, rugged, and best of all, easy to use. It is a true hand held device that will source, simulate and measure loop current, mV/V, loop integrity and also perform switch testing. It's smart phone like menu make it simple and easy to use. The ADT220 is ideal for calibrating, maintaining, and troubleshooting various loop devices in the field.



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

FEATURES

Measuring and sourcing loop current, mV and V

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

Sources 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

Data 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

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)

Snapshot

Save and manage up to 100 snapshots

■ Display

3.5 inch TFT color screen

One hand operation

4, 5, or 6 digits adjustable display

Rugged

Rugged design for harsh environments.

Passed a 1-meter drop test

Three year warranty for the ADT 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

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

ADT 220 Multifunction Loop Calibrator



APPLICATIONS

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

SPECIFICATIONS

Electrical Specifications

Measurement Accuracy				
	Range	Resolution	Accuracy	
Voltage DC	-300.000 to 300.000 mV	1µV	0.01%RD+0.005%FS	
	-60.0000 to 60.0000 V	0.1mV	0.01%RD+0.005%FS	
Current DC	-30.0000 to 30.0000 mA	0.1µA	0.01%RD+0.005%FS	
Loop integrity test	0 to 2000.0 ohm	0.1 Ω	0.02%RD+0.2 Ω	
On/off	In case the switch comes with voltage, the voltage range:			
	3 to 24V			
Source Accu	Source Accuracy			
Voltage DC	-10.00 to 200.00 mV	0.01mV	0.02%RD+0.005%FS	
	0 to 12.000 V	1mV	0.02%RD+0.005%FS	
Current DC	0 to 22.000 mA	1µA	0.02%RD+0.005%FS	
DC24V	N/A	N/A	0.5V	

General Specifications

Ceneral Opecinications				
Environmental Specifications				
Operating Temperature		-10°C to 50°C		
Storage Temperature	е	-20°C to 60°C		
Humidity		<90%, non-condensing		
Safety Specifications				
European Compliance		CE Mark		
Mechanical Speci	ficat	ions		
Display	3.5 inch TFT color screen			
Electrical Connection	φ4mm sockets and flat mini-jack thermocouple			
Liectrical Conficction	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			
1 ower Supply	adaptor			
Battery	Rechargeable Li-ion battery (included)			
Battery Life	15 hours uninterrupted use			
Dattery Life	Battery life will be reduced when 24V is applied			
Battery Charge	110V/220V external power adapter (included)			

ORDERING INFORMATION

■ Model Number

ADT 220

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	

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*	Additel/Land software could b	e downloa	ded for free	at www.additel.con	n

Optional Accessories			
Model number	Description	Picture	
9050	USB to RS232 (DB-9 Male) Adapter	(In the second	
9712	Spare chargeable Li-ion battery for multifunction calibrator		
9816	110V/220V external power adapter for multifunction calibrator		
9906	Carrying case for multifunction calibrator		

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