

## Altek Process Calibrators

### Milliamp Calibrator

- Source and Read 0-24mA
- Simulate 2-wire Transmitters
- Quik-Chek Pushbuttons

Use the PocketCal 134-2 to simultaneously power and measure two-wire transmitters up to 12V. Simulate the transmitter in circuits from 3 to 45V.



#### MILLIAMP CALIBRATOR SPECIFICATIONS

Ranges	0.00 to 24.00mA, -25.0 to 125.0% of 4 to 20mA
Accuracy	0.03mA
Burden	0.9V @4mA, 1.9V @24mA
Drive	700Ω @20mA with fresh batteries
Battery Life	40hr simulate, 20hr source from 9V batteries (supplied)

134-2

### Loop Calibrator

- Source to 24mA, Read to 52mA
- Measure to ±99.9V DC
- Quickly Simulate 2-wire Transmitters

The versatile 334A will check, calibrate and troubleshoot all the signals in a 4-20mA process control loop. Simultaneously power and measure two-wire transmitters up to 27V. Simulate the transmitter in circuits from 3 to 45V. Overload protected to 135VAC.



#### LOOP CALIBRATOR SPECIFICATIONS

Source/Simulate	0.00 to 24.00mA, -25.0 to 125.0% of 4 to 20mA
Read	0.00 to 52.00mA, -25.0 to 300.0% of 4 to 20mA
Accuracy	0-24mA: ±0.05% of reading ± 1 digit Quik-Chek: ±0.03% of reading ± 0.01mA
Drive	1200Ω @20mA with fresh batteries
Battery Life	100hr simulate, 20hr source from 9V batteries (supplied)

334A



820E

#### MULTIFUNCTION CALIBRATOR SPECIFICATIONS

FUNCTION	RANGE	ACCURACY
mA Source/Measure	0.00 to 24.00mA, -18.8 to 125.0% of 4 to 20mA	±0.05% of FS ± 1d
mV	0.00 to 110.00mV DC (20mA max source/sink)	±0.05% of FS ± 1d
V	0.00 to 10.25V DC (20mA max source/sink)	±0.05% of FS ± 1d
V (measure only)	0.0 to 200.0V DC	±2% of FS ± 1d
VAC (measure only)	0.0 to 250.0V AC TRMS	±2% of FS ± 1d
TC	J, K, T, E	±2% typical
RTD	100Ω Pt, 385 alpha (2mA max)	±1°C
Ohms	0 to 400.0Ω source, 0 to 1000.0Ω measure	±0.06Ω
Frequency	1-1000 CPM, 1-1000 Hz, 0.01-10.00 kHz	±0.05% of FS ± 1d
Simulate Range	3 to 45V	
ma Compliance	25V (max 1.9V burden at 24mA)	
Transmitter Drive	1200Ω @20mA typical, Power & Measure mode	
Battery Life	50hr simulate, 20hr source (AA batteries supplied)	

### Multifunction Calibrator

- Calibrate Milliamps, Volts & Frequency
- Check Thermocouple & RTD Sensors
- Use in Place of a DMM for ACV & Ohms
- Simulate 2-Wire Transmitters

The deluxe Model 820E combines the functions of the 111, 322-1, 334A and voltage calibration in one compact unit. It also performs frequency calibration and extended voltage measurements.

#### ORDERING INFORMATION

(Batteries & three year warranty included)

AL/134-2	PocketCal Milliamp Calibrator
AL/334A	Milliamp Loop Calibrator with Carrying Case
AL/820E	TechChek Multifunction Calibrator with Carrying Case
AL/3331E	Carrying Case with Belt Clip for 134-2