CPA150 Hand-held Indicator

- **Suited for Strain Gauge Type Sensors**
- **7½ digits read-out**
- **Powered by 2 x AA internal batteries**
- **Low Power Mode**
- **Front Panel Programming**
- **Optional RS232 Interface**

DESCRIPTION

Measurement Specialties, Inc. offers comprehensive measurement solutions including electronic signal conditioning and display units.

The hand-held **CPA150** model is a completely portable, battery-powered indicator designed to interface with our Whetstone bridge gauge sensors. It is especially useful for mobile testing.

The CPA is an all-in-one digital meter, supplying the sensor with power and providing general purpose 7½ digit readout. Calibration and configuration are performed from the front panel, with only 6 keys. Standard features include MAX/MIN value storage, a tare function and shunt calibration. Two separate ranges are available, which enable the indicator to read and display values of two different sensors or two separate units of measurement.

Through easy front panel programming, the CPA150 adapts to a wide range of applications and works with most of Measurement Specialties, Inc..
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FEATURES

- Suited for Strain Gauge Type Sensors
- 7½ digits read-out
- Powered by 2 x AA internal batteries
- Low Power Mode
- Front Panel Programming
- Dual Range Facility

APPLICATIONS

- Weighing
- Laboratory and Research
- Outdoor punctual measurements
- Portable calibration device

CPA150 Hand-held Indicator

PERFORMANCE SPECIFICATIONS
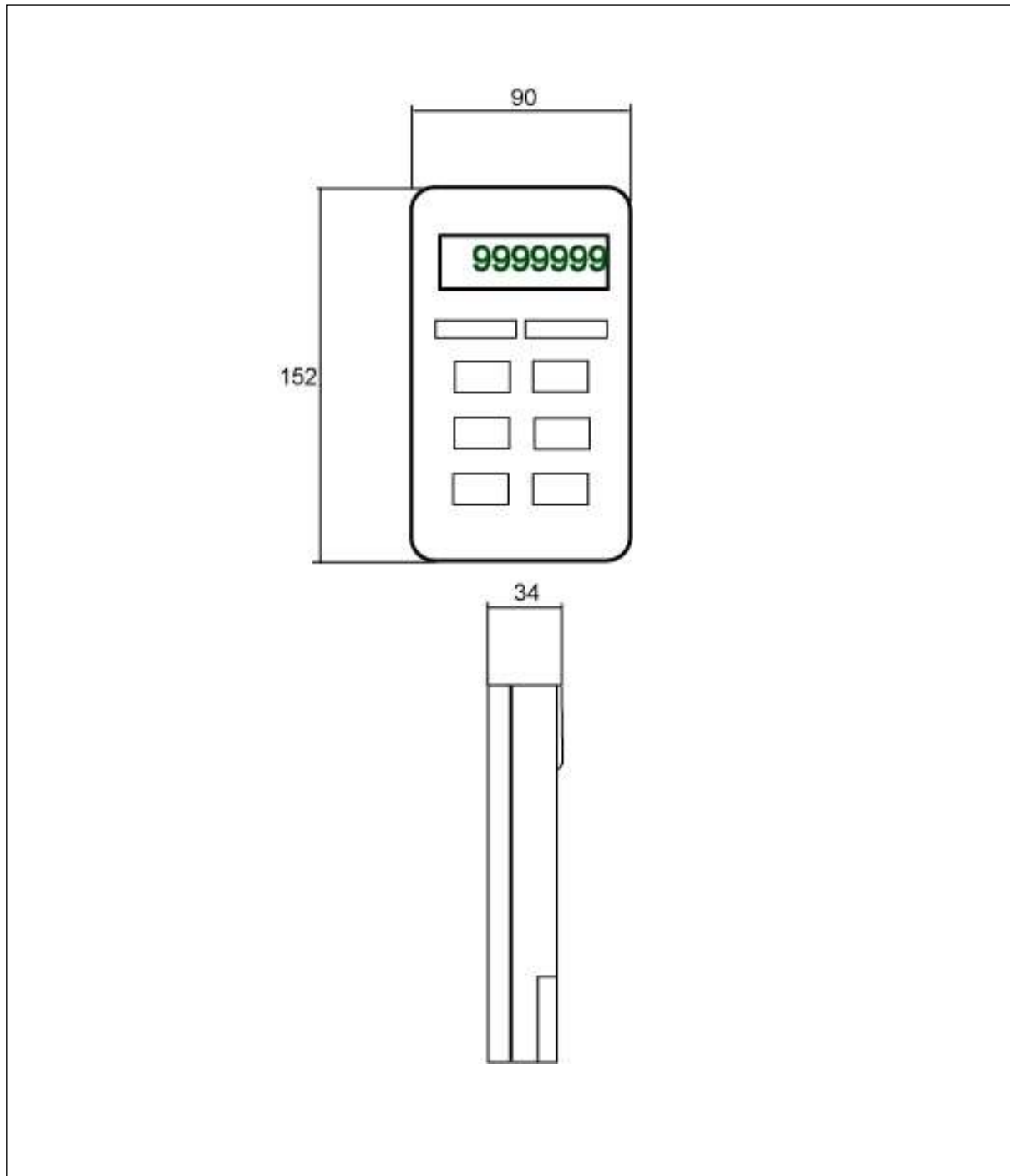
All values are typical at temperature 20±1ºC

Display	
Main Display	7½ digits (±9999999) , 8.8 mm high digits
Front Panel LEDs	7 indicators (NET, SHUNT CAL, PIC, THROUGH, HOLD, BATTERIE)
Update Rate	≤40 ms (can be set in configuration menu)
Resolution	1/250 000 at 1 Hz
	1/65 000 at 10 Hz
Electrical Characteristics	
Internal Batteries	2 x AA size alkaline batteries, access via sealed rear compartment
Battery Life	45 hours (typical 450 hours in low power mode), with 350 Ω sensor
Auto power off function can be set	
Accuracy	
Non-Linearity	± 0.005 % F.S.
Thermal Drift	< 5 ppm / ° C
General Characteristics	
Dimensions (l x w x h)	90 x 152 x 34 mm [3.54 x 5.98 x 1.34 in]
Dark grey ABS housing	
Front Panel Protection	IP65
Operating Temperature Range	-10 to 50° C [14 to 122° F]
Weight	260g [0.57lb]
Electrical Connection	5 pin Binder socket (mating plug supplied)

Strain Gauge Signal Conditioning	
Input	± 5 mV/V (±50mV/V on request)
Excitation voltage	5 Vdc (± 4 %), 59 mA max.
Minimum Input Impedance	85 Ω

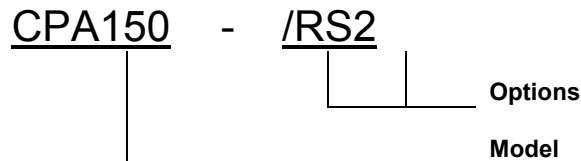| Standard Features	
ON/OFF	Power on/off switch
RANGE	Selects between two ranges
HOLD	Hold the current display value
GROSS/NET	Display hold
SHUNT CAL	Generates simulated input for indicator testing
PEAK	Enables peak hold
THROUGH	Enables valley/through hold

DIMENSIONS & WIRING SCHEMATIC (IN METRIC)

DSPM Industria®
sensori & trasduttori

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OPTIONS

RS2 : RS232 Interface

ORDERING INFO

CPA150 - /RS2

Options

Model

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