

HS33 SPECIFICATIONS

- Display: 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.
- Overrange: "OL" mark indication.
- Auto power off: 60 minutes.
- Operating environment: 32 to 122°F (0 to 50°C) at <70% R.H.
- Storage temperature: -4 to 140°F (-20 to 60°C), 0 to 80% R.H. with battery removed.
- Accuracy: Specifications good in ambient conditions of 73°F ±9°F (23°C ±5°C), <75% relative humidity.
- Temperature Coefficient: 0.1×(specified accuracy) per °F/°C. (32 to 64°F (0 to 18°C), 82 to 122°F (28 to 50°C)).
- Power: Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.
- Battery life: 300 hours typical with alkaline.
- Accessories: One pair test leads, one pair alligator clips, k-type thermocouple (HS33), 9V battery (installed), and operating instructions.
- Safety: UL, CE, Cat III 600V, UL3111, IEC/EN61010-1, C-Tick certified.

Diode test

- Test current: ~1.0mA
- Accuracy: ±(1.5% rdg + 3 dgts)
- Open circuit volts: 3.0VDC typical
- Overload protection: 500VDC or AC rms

Continuity

- Audible indication: Less than 100Ω
- Response time: 100ms
- Green LED will be on continuously.
- Overload protection: 500VDC or AC rms

Capacitance

- Range: 200μF
- Resolution: 0.1μF
- Accuracy: ±(3% rdg + 5 dgts)
- Overload protection: 500VDC or AC rms

DC volts

- Ranges: 200mV, 2000mV, 20V(HS32), 200V
- Resolution: 0.1mV
- Accuracy: ±(0.5% rdg + 1 dgt)
- Input impedance: 560kΩ on V inputs, 10MΩ on mV input
- Overload protection: 600VDC or AC rms, 500VDC/350VAC rms 15 sec on 200mV range
- Transient protection: 6kV for 10μ sec

AC volts (50Hz - 500Hz)

- Ranges: 200mV, 200V, 600V
- Resolution: 0.1mV
- Accuracy: $\pm(1.2\% \text{ rdg} + 3 \text{ dgts}) \pm(2.0\% \text{ rdg} + 5 \text{ dgts})$ on 600V range
- Input impedance: 560k Ω on V input, 10M Ω on mV input
- Overload protection: 600V DC or AC rms
- Transient protection: 6kV for 10 μ sec

Resistance

- Ranges: 200 Ω , 200k Ω
- Resolution: 0.1 Ω
- Accuracy: $\pm(1.0\% \text{ rdg} + 4 \text{ dgts})$
- Open circuit volts: 0.3VDC typical, (3.0VDC on 200 Ω range)
- Overload protection: 500VDC or AC rms

Temperature (HS33)

- Range: -30 to 200 $^{\circ}$ F (-34 to 93 $^{\circ}$ C)
- Resolution: 0.1 $^{\circ}$ F/ $^{\circ}$ C
- Accuracy: $\pm 1^{\circ}$ F, 32 to 120 $^{\circ}$ F (0 to 48 $^{\circ}$ C),
 $\pm 1\% + 1.5^{\circ}$ F, -4 to 200 $^{\circ}$ F (-20 to 93 $^{\circ}$ C),
 $\pm 2\% + 3^{\circ}$ F, -30 to -4 $^{\circ}$ F (-34 to -20 $^{\circ}$ C).
- Sensor type: K-type thermocouple
- Overload protection: 60 VDC or 30 VAC rms

SKU	HS33
Brand	Fieldpiece
Shipping Weight	1.0000kg
Shipping Width	0.200m
Shipping Height	0.100m
Shipping Length	0.400m
Shipping Cubic	0.008000000m ³
Unit Of Measure	ea

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Diode test

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Continuity

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Capacitance

- Range: $200\mu\text{F}$
- Resolution: $0.1\mu\text{F}$
- Accuracy: $\pm(3\% \text{ rdg} + 5 \text{ dgts})$
- Overload protection: 500VDC or AC rms

DC volts

- Ranges: 200mV, 2000mV, 20V(HS32), 200V
- Resolution: 0.1mV
- Accuracy: $\pm(0.5\% \text{ rdg} + 1 \text{ dgt})$
- Input impedance: $560\text{k}\Omega$ on V inputs, $10\text{M}\Omega$ on mV input
- Overload protection: 600VDC or AC rms, 500VDC/350VAC rms 15 sec on 200mV range
- Transient protection: 6kV for 10 μ sec

AC volts (50Hz - 500Hz)

- Ranges: 200mV, 200V, 600V
- Resolution: 0.1mV
- Accuracy: $\pm(1.2\% \text{ rdg} + 3 \text{ dgts}) \pm(2.0\% \text{ rdg} + 5 \text{ dgts})$ on 600V range
- Input impedance: $560\text{k}\Omega$ on V input, $10\text{M}\Omega$ on mV input
- Overload protection: 600V DC or AC rms
- Transient protection: 6kV for 10 μ sec

Resistance

- Ranges: 200Ω , $200\text{k}\Omega$
- Resolution: 0.1Ω
- Accuracy: $\pm(1.0\% \text{ rdg} + 4 \text{ dgts})$

- Open circuit volts: 0.3VDC typical, (3.0VDC on 200Ω range)
- Overload protection: 500VDC or AC rms

Temperature (HS33)

- Range: -30 to 200°F (-34 to 93°C)
- Resolution: 0.1°F/°C
- Accuracy: ±1°F, 32 to 120°F (0 to 48°C), ±1% + 1.5°F, -4 to 200°F (-20 to 93°C), ±2% + 3°F, -30 to -4°F (-34 to -20°C).
- Sensor type: K-type thermocouple
- Overload protection: 60 VDC or 30 VAC rms

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Unit Of Measure ea