Accuracy Specifications

Accuracy is specified for 1 year after calibration at operating temperatures of 18 °C to + 28 °C and is given as:

± ([% of reading] + [counts])

MEASURE V dc

Range: + 28 V (+ 30 V max)

Resolution: 1 mV

Input Impedance: 1 MΩ

Accuracy: ± (0.015 % of reading + 2 counts)

MEASURE mA dc

Range: 20 mA (24 mA max)

Resolution: 1 µA

Accuracy: ± (0.015 % of reading + 2 counts)

SOURCE / SIMULATE mA dc

Range: 0 mA to 20 mA (24 mA max)

Resolution: 1 µA

Accuracy: ± (0.015 % of reading + 2 counts)

Source mode:

Compliance: To 1200 Ω at 20 mA
To 950 Ω at 20 mA in HART™ Mode

Simulate mode:

External loop voltage requirement: 24 V nominal, 30 V maximum, 12 V minimum

Loop Power

≥ 24 V

Percent display

– 25 % to 125 %

Input / Output Protection

Fuseless protection

General Specifications

Maximum voltage between any terminal and earth ground or between any two terminals:

30 V

Storage temperature:

– 40 °C to 60 °C

Operating temperature:

– 10 °C to 55 °C

Operating altitude:

3000 meters maximum

Temperature coefficient:

± 0.005 % of range per °C for temperatures of –10 °C to 18 °C and 28 °C to 55 °C

Relative humidity:

95 % up to 30 °C;
75 % up to 40 °C
45 % up to 50 °C
and 35 % up to 55 °C

Vibration:

Random 2 g, 5 to 500 Hz

Shock:

1 meter drop test

Safety Compliance:

Complies with IEC 61010-1-95 CAT I, 30 V; CSA C22.2 No. 1010-992 NRTL; ANSI/ISA S82.02.01-1994.

CE:

Complies with EN61010-1 and EN61326

Power requirements:

Single 9 V battery (ANSI/NEDA 1604A or IEC 6LR61)

Battery life (typical):

SOURCE mode: 18 hours; 12 mA into 500 Ω;
MEASURE / SIMULATE mode: 50 hours

Size:

69.85 mm (W) x 142.87 mm (L) x 50.80 mm (H)
[2.75 in (W) x 5.625 in (L) x 2.00 in (H)]

With holster and Flex-Stand:
76.20 mm (W) x 158.75 mm (L) x 54.61mm (H)
[3.00 in (W) x 6.25 in (L) x 2.15 in (H)]

Weight:

224 g (8 oz); With holster and Stand: 349 g (12.3 oz)