

Section 3

Specifications

Application

All lead-acid and nickel-cadmium cells of less than 2100 Ah capacity.

Tests on some battery systems may be constrained by 2-in. (50.8 cm) maximum opening of clamp-on receiver and physical installation of batteries.

Maximum total voltage at BITE source leads: 250 V dc (larger battery systems can be sectioned to accommodate this specification).

Electrical

Transmitter:

120 V ac, 60 Hz supply voltage (Cat. No. 246001)

220 V ac, 50 Hz supply voltage (Cat. No. 246001-47)

Nominal source output current: 10 A for 60 Hz operation

Maximum battery test voltage: 250 V dc

Receiver:

Three 1.5 V dc alkaline AA cells

Minimum battery life: 40 hours

Maximum dc voltage between voltage probes: 250 V

Time delay after power-on: 30 seconds maximum

Mechanical

Dimensions

Transmitter Enclosure:

12 in. H x 19-9/16 in. W x 11-1/32 in. D

(30.4 x 24.3 x 28.0 cm)

Receiver Enclosure:

8-1/4 in. x 3-1/4 in. x 1-5/8 in. (overall)

(20.9 x 8.2 x 4.1 cm)

Weight: 36 lb (16.3 kg) (total)

Display

Transmitter display: analog meter scaled 0 to 15 A, 5 percent accuracy.

Receiver display: 3-1/2 digit lcd, with ranges of 0 to 1.999 m Ω with 1 $\mu\Omega$ resolution and 0 to 19.99 m Ω with 10 $\mu\Omega$ resolution, ± 5 percent of full scale over operating temperature range, current greater than 5 A through cell under test.

Environmental

Operating temperature range: 32 to 104°F (0 to 40°C)

Storage temperature range: -4 to 131°F (-20 to 55°C)

Humidity: 20 to 95 percent rh noncondensing

Accessories Supplied

Two source leads (transmitter to battery), 40 ft (12 m), 14 AWG stranded copper with acid resistant insulation, rated for 600 V dc, and terminated with latch and lock connector at the transmitter and alligator clips at the battery.

Two potential leads (receiver probes), 8-1/2 ft (2.6 m), rated for 400 V dc, and terminated in banana plugs at the receiver and helical spring point at the battery.

One ac power cord, 6 ft (1.8 m) for standard grounded outlet.

Data pad, 50 sheets

Instruction Manual