

FM-140XL

Digital Conductivity Meter



Special Features

The *Centurion NDT* Model FM-140XL conductivity meter makes conductivity testing simple and worry free...for most non-ferrous metal testing. Portable, yet ruggedly designed, it instantly generates readings with a bright, direct digital display, in percent IACS (International Annealed Copper Standard). To prolong battery life, readings only display when probe and testing surfaces meet.

The FM-140XL delivers precision accuracy to +/- .5% of the readings at 20° C. Included is a RS-232 port which allows the user to download information to computers, micro-controllers or other peripherals. The FM-140XL is housed in a compact, lightweight and shock resistant case for long life and durability. Placing the probe against the testing surface generates a direct conductivity reading in large brilliant LED digits. The front panel features a sorting gate, go/no-go, red or green LED display.

Applications

The FM-140XL meter is useful for sorting a wide variety of non-ferrous metals and allows, as well as for measuring changes in physical properties affecting conductivity. Such changes include hardening, annealing, variations in alloy, heat treating, corrosion and/or aging.

Its rechargeable Ni-Cad batteries provide up to ten hours of continuous operation from one charge. A lift-off compensation circuit easily handles rough surfaces, and compensates for probe wobble. Two test samples are mounted atop of the unit for easy set up.



7952 Nieman Road, Lenexa, KS 66214-1560 USA
Phone: 913-685-0675, Fax: 913-685-1125
www.ndtsupply.com, sales@ndtsupply.com

Specifications

Accuracy: +/- 0.5% at 20°C.

RS-232: Downloads data into the user's computer, micro-controller or other peripheral.

Resolution: 0.1/IACS for any reading.

Readout: 4.0 digits, 0.43" (1.09 cm) seven segment LED display with fixed decimal point. Display automatically shuts off when probe is lifted from the part being tested.

Lift-off: Automatic lift-off compensation circuit compensates for moderately rough surfaces and minor probe wobble.

Calibration: Two case mounted set-up samples. Separate front panel control for each sample.

Batteries: Two rechargeable, self-contained Ni-Cad battery packs are standard. Approximately 10 hours continuous operation on a single charge.

Line Operation: May be operated on 115V 50/60 Hz line or converted to 230V 50/60 Hz.

Weight: 5.0 lbs. (2.27 kg).

Dimensions: 2.75" high x 8.5" wide x 9" deep (7 cm x 21.6 cm x 22.9 cm).

Probe: 7/16" diameter, shielded. Probe replacement requires recalibration at factory.

Handle: Multi-adjustable handle enables operator to lock unit into position for easiest viewing angle.

Selective Specifications

	Range	Accuracy	Oscillator Frequency	Probe
FM-140XL Part No. 220220A	10% to 110% IACS	± 0.5% of reading ± 1 digit @ 20° C	60 KHz	.437" (1.1cm) dia. Part No. 220245



NIST Traceable Conductivity Standards



Optional Carrying/Shipping Case
Part No. 520363