



Model 870

mA / mAs Meter

With exposure time measurement

FEATURES

- Small hand held size
- Measure current from any x-ray
 - Single phase
 - Full wave
 - Multiphase
 - DC
- New High Accuracy Circuit
- Self-Resetting
- Battery Operated
- Two Year Warranty
- Built in measurement of battery
- Use for Medical or Dental X-rays
- Use for digital x-ray
- Displays mA, mAs and exposure time for each reading
- Easy to use

TYPICAL APPLICATIONS

- Check x-ray tube filament emission by measuring mAs value of exposure
- Check and adjust mA settings
- Verification of x-ray exposure time
- Calibration of x-ray timer
- Quality Assurance
- Measurement of exposure time
- Analyze x-ray malfunctions

DESCRIPTION

- Measures tube current of x-ray generators.
- Calculates product of exposure time and mA for mAs.
- Connect two leads in series with tube current.
- Exposure time is measured in milliseconds.
- New improved circuit increases accuracy, reliability
- Provides automatic detection of AC / DC
- Eliminates need to reset.
- Stores and displays mA minimizing need for long x-ray exposure.
- Displays all information eliminating need for multiple exposures.

Electronic Control Concepts



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SPECIFICATIONS FOR MODEL 870 mA / mAs METER

RANGE

- 200 mA Full Scale
 - 0.1 mA Resolution (mA or mAs)
 - 10 Ohms Input impedance
 - Measures 5 to 200 mA
- 2A Full Scale
 - 1 mA Resolution (mA or mAs)
 - 1 Ohm Input impedance
- Meter automatically selects AC/DC
- Select range via On / Off Switch

mA / mAs ACCURACY

- 1% +/- 2 mA on all ranges

CONNECTION

- Tip Jacks
- Test leads with two alligator clips

DISPLAY

- 0.22" (5.5mm) Liquid Crystal
- 2 line, 12 Character Alphanumeric

CONTROLS/INDICATORS

- ON / OFF / Range Switch
- 24 Character Liquid Crystal Display
- Displays mA, mAs and Exposure time for each exposure.

POWER

- 9 Volt battery accessible from bottom of case
- Low battery indicator

BATTERY LIFE

- 100 hours continuous
- Typically over one year of normal use

WARRANTY

- 2 years from ship date

PHYSICAL SIZE

- 80 X 147 X 40 mm
- 3.15 X 5.8 X 1.6 inches

WEIGHT

- 250 g, (0.55 lb)

RECALIBRATION

- Annually

OPERATING CONDITIONS

- +10° to 40° C
- 50° to 104° F

OPTIONS

Model 8700CC – Tailored cordura Carrying Case specifically designed for instrument.

Model 8700HC – Custom made hard case with space for leads.

ABOUT ECC

ECC is recognized throughout the world, having sold to over forty countries, as well as military installations. ECC has been in business since 1994, and has become known for quality, reliability, and price.



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