



# 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

PO Box 182, 1160 US Route 50  
Milford, Ohio 45150-9705 USA  
Phone: 800-VIP-XRAY

Fax: 845-247-9028

sales@eccxray.com | www.eccxray.com

A Division of US Nuclear Corp

www.usnuclearcorp.com

---

# 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 batteries 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

80X147X40mm  
3.15 X 5.8 X 1.6 inches

## WEIGHT

250 g, (0.55 lb)

## RECALIBRATION

- Annually

## OPERATING CONDITIONS

- +10o to 40o C
- 50oto104oF

## OPTIONS

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

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



## About ECC

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



### Electronic Control Concepts

PO Box 182, 1160 US Route 50  
Milford, Ohio 45150-9705 USA  
Phone: 800-VIP-XRAY

Fax: 845-247-9028

sales@eccxray.com | www.eccxray.com

A Division of US Nuclear Corp

www.usnuclearcorp.com