



# Dose Meter and Exposure Time Meter

Model 890

## FEATURES

- Measures x-ray dose
- Measures dose rate
- Measures exposure time
- Selectable English and metric units
- Easy to use
- Works with AC or DC x-rays
- No need to set for AC/DC
- High accuracy
- Battery operated
- Two year warranty
- Custom carrying case option
- Solid state digital design
- Durable ABS plastic case

## TYPICAL APPLICATIONS

- Measure effective dose
- Test mA and mAs linearity
- Verify mAs reproducibility
- Measure patient equivalent dose
- Calibration of x-ray
- Quality assurance
- Measurement of exposure time
- Radiation safety measurement
- Troubleshooting and repair of x-rays
- Maintain quality of x-ray
- Measure Half Value Layer

## DESCRIPTION

- Measures x-ray dose
- Integrates signal from solid state detector
- Converts reading to mR or uGy
  - Switch selectable
- Calculates dose rate based on exposure time
- Easy to understand status and error messages.
- Modern solid state instrument will provide many years of service

## **Electronic Control Concepts**



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## Model 890 SPECIFICATIONS

### DOSE RANGE

1 mR to 2000 mR  
0.01mGy to 20 mGy  
10uGy to 20000uGy

### DOSE ACCURACY

5% +/- 1 mR

### EXPOSURE TIME ACCURACY

1% +/- 1 millisecond - 20 to 5000 mS

### DISPLAY

Liquid Crystal  
0.21" (5.5mm) Character Height  
2 line by 12 Character Alphanumeric

### CONTROLS

ON/OFF - UNITS Switch

### OUTPUTS

2x12 Character Liquid Crystal Display

### POWER

9 Volt Battery  
Accessible from bottom of case  
Duracell MN1604 or equivalent

### BATTERY LIFE

120 hours continuous  
Typically 1 year of normal use

### PHYSICAL SIZE

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

### WEIGHT

350 g, (0.81 lb)

### ENVIRONMENTAL

Temperature  
Operating +10°C to 40°C  
Storage 0°C to 50°C  
Humidity  
Up to 75% relative humidity

### CONNECTIONS

None  
Remote sensor available

### OPTIONAL ACCESSORIES

Remote Sensor  
Hard Carrying Case 870HC

Remote Sensor



### 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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