



X-Ray Pulse Counter and Exposure Time Meter

Model 8700

Features

- Easy to use
- Small hand held size
- AC or DC X-rays
- New High Accuracy Circuit
 - o +/- 1% for exposure time
- Self Resetting
- Battery Operated
- Two Year Warranty
- Direct Exposure Reading or AC input
- Use for Medical or Dental X-rays

Typical Applications

- Verification of x-ray exposure time
- Calibration of x-ray timer
- Quality Assurance
- Detect presence of x-ray
- Measurement of exposure time
 - o Digital x-ray
 - o Conventional x-ray
- Direct measurement of timer accuracy
- Analyze x-ray malfunctions

Description

- Measures the time or duration of radiation output produced by any x-ray generator.
- Direct measurement of exposure from the x- ray head. Just place 8700 under head and fire x-ray.
- Pulse Mode - half-wave and full-wave x-ray pulses are counted as 60 or 120 pulses per second, measures number of pulses
- Millisec Mode – Must be used for DC, capacitor discharge and 3-phase x-rays, exposure time is measured in milliseconds.
- Millisec Mode – May be used for half-wave and full-wave x-ray. Measures and displays time in milliseconds.
- When testing x-ray timers and controls, the time of relay contact closure can be measured using the AC input feature.
- 12 x 2 Character display allows more information
- New improved circuit increases accuracy, sensitivity and reliability.



Electronic Control Concepts

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Notes

Regular x-ray testing with Model 8700 helps prevent poor or inconsistent quality of x-ray images due to inaccuracy or inconsistency of exposure time. This prevents repeat examinations, which cost time and money. The digital X-ray Pulse Counter / Exposure Time Meter is a noninvasive, solid state instrument that is used by regulatory agencies, x-ray technicians, hospitals, x-ray laboratories and others for testing and quality assurance of x-ray equipment.

Specifications for 8700

ACCURACY

- AC / Pulse - one (1) count
- DC - 1%, +/- 1 millisecond
Measures at 50% of peak value

SENSITIVITY

- X-ray Input: 40kVp, 3mA at
5 cm from top surface of case,
pointed to target on case.
- AC Input: 90 VAC minimum

RANGE

- 1 ms to 65.5 seconds
- 1 pulse to 65,536 pulses

DISPLAY

- 2x12 Character Liquid Crystal Display
- 0.21" (5.5mm) character height

CONTROLS/INDICATORS

- Three Position Switch
- Pulse, Off, Milliseconds

POWER

- Internal 9 Volt Battery
- Low battery indicator

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

CONNECTIONS

- None required for direct x-ray exposure measurement
- 2 Tip Jacks for AC input

Ordering Information

Model 8700 X-Ray Pulse Counter / Exposure Time Meter

Model 8700CC Padded cordura Carrying Case. Carrying case specifically designed for instrument.

Model 8700HC Hard case, provides room for instrument and cables as well as some tools.

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.



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