

Model 8700 X-Ray Pulse Counter & Exposure Time Meter

The Model 8700 is a versatile digital x-ray pulse counter and exposure time meter. It measures the time or duration of radiation output produced by a wide variety of x-ray generators.

For direct measurement of exposure from the x-ray head, simply place the 8700 under the head and make an exposure. The 8700 is “self-resetting.” There is no need to reset the instrument after each reading. The reading is stored after each exposure, until the next exposure

When testing x-ray timers and controls, the time of the relay contact closure can be measured using the AC input feature. When used with DC, capacitor discharge and 3-phase x-ray, exposure time is measured in milliseconds.

Typical applications include: verification of x-ray exposure time, calibration of x-ray timer, quality assurance, measurement of exposure, direct measurement of timer accuracy, and analysis of x-ray malfunctions.

An optional remote sensor is available to allow use of the 8700 at distances of up to 12 feet away from the x-ray machine.

Features:

- ▶ High Accuracy
- ▶ Use for Medical or Dental X-rays
- ▶ Small Hand-Held Size
- ▶ Battery Operated
- ▶ Two year Warranty



Accessories

- Model 8700RS Remote sensor with 3 meter cable
- Model 8700SC Oscilloscope cable

Specifications

- Display: 4 digit, 0.4 in (10.2 mm) liquid crystal
- Range: 9999 Pulses
- 9999 Milliseconds
- Accuracy:

 - AC: +/- 1 count
 - DC: 2%, ± 1 millisecond
 - X-Ray Detection: +/- 1 count

- Sensitivity:

 - X-ray input: 50 kVp, 5 mA at 5 cm from top surface of case, pointed to target on case
 - AC input: 65 VAC minimum, 130 VAC maximum

- Controls: three position switch, pulse, off, milliseconds, illuminated pushbutton with green power-on indication
- Output: analog waveform to oscilloscope, 3.9 mm jack
- Power: 9 V, accessible from bottom of case
- Battery life: 24 hours continuous, typically 6 months of normal use, low battery indicator on display
- Dimensions: 8.0 x 14.7 x 4.0 cm (3.15 x 5.8 x 1.6 in)
- Weight: 0.5 kg (1.1 lb)