



Model 820/820L kVp / mAs Meter

With exposure time measurement

Features

- Combines two instruments
- kVp and mAs in one package
- Easy to use
- No need to set for AC/DC
- mAs meter is self-resetting
- kVp is non-invasive
- AC or DC x-rays
- High accuracy
- Measures kVp, mA, mAs, exposure time
- Battery operated
- Two year warranty
- Custom carrying case included
- Durable ABS plastic case
- Remote readout via Bluetooth

Typical Applications

- Verification of peak x-ray voltage
- Constancy checks
- Calibration of x-ray
- Quality assurance
- Measurement of exposure time
- Troubleshooting and repair of x-rays
- Maintain quality of x-ray

Bluetooth

- ECC Android App allows viewing data on smart phone or tablet

Description

- Use as mAs Meter or kVp Meter
- mA and mAs measure x-ray tube current
- kVp measures the peak x-ray accelerating voltage from tungsten x-ray generators.
- Direct measurement of peak kV from the x-ray head, simply place 820(L) in beam and take x-ray.
- See readout on smartphone or tablet.
- Push Mode button to display exposure time.
- Indicates x-ray waveform type - e.g. Half-wave, Full-wave or DC / 3 Phase.
- Optimized for dental x-rays, also works on radiographic and fluoroscopic x-rays.
- Large display readable from outside x-ray room.
- Alphanumeric display provides easy to understand status and error messages.
- Plug in mAs cable to measure mA and mAs.
- Remove mAs cable to measure kVp



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Specifications for 820/820L kVp

RANGE

- 820:** 45 to 125kV
- 820L:** 40 to 115kV

KVP ACCURACY

- 2% +/- 1 kV, at 25 to 100 mA (820) or 10 to 50 mA (820L) both
- 18 to 42 cm from head, for Tungsten target x-ray tube with 1.5 mm Aluminum equivalent filtration.

EXPOSURE TIME ACCURACY

- 1% +/- 2 millisecond (minimum time to 2 sec)

MINIMUM EXPOSURE TIME

- 40 millisecond - High Speed Mode
- 80 millisecond - High Resolution Mode

MINIMUM CURRENT (mA)

- 7 mA (820) or 5 mA (820L) at 50 kV, 10 cm from x-ray, depending on focus

General Specifications

DISPLAY

- 0.4" (10.2mm) LCD
- 8 Character Alphanumeric

CONTROLS/INDICATORS

- ON/OFF Switch – Illuminated push-button with green power-on indication
- MODE Switch - momentary push-button

POWER

- 4-AA batteries
- Low battery indicator

BATTERY LIFE

- 48 hours continuous
- Typically 9 months of normal use

WARRANTY

2 years from ship date

PHYSICAL SIZE

150 x 120 x 58.5 mm
5.9" x 4.7" x 2.3" inches

WEIGHT

0.7 kg, (1.5 lb)

Specifications for 820/820L mAs

TWO RANGES

- 200 mA Full Scale
 - 0.1 mA Resolution (mA or mAs)
 - 10 Ohms Input impedance
- 2A Full Scale
 - 1 mA Resolution (mA or mAs)
 - 1 Ohm Input impedance
- Set Range via pushbutton switch

mAs ACCURACY

- 2% +/- 1 mA on both ranges

CONNECTION

By a 5 meter cable w/ two alligator clips or banana plugs

BLUETOOTH RANGE

- 40 feet (12 meters) line of sight

Ordering Information

Model 820 x-ray kVp /mAs / Exposure Time Meter

Model 820L Low Range x-ray kVp / mAs / Exposure Time Meter

About ECC

Established in 1994, ECC products are known for their quality, reliability, and value. Our meters are sold in over 40 countries and to various military installations.



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