THE NEW INTELLIGENT MAS-5 METER FROM DISC

For many years service engineers have been asking for a meter that measures MAS, exposure time, and mA at the same time. DISC has produced this meter with extra features! Not only will the new MAS-5 provide MAS, exposure time, and mA, but the meter provides mA waveform information. The MAS-5 displays three 50 millisecond mA waveform samples so that radiographic and mammographic pre-heat circuits can be analyzed and adjusted without using an oscilloscope. Based on feedback from field service engineers, the MAS-5 also has a button that when pushed causes the meter to include/exclude the first 10 milliseconds of the mA waveform.

The new MAS-5 intelligent meter uses a microcontroller to analyze the digital mA waveform and display accurate values essential for analyzing and calibrating radiographic and mammographic equipment.

The four line LCD displays the following:

Line 1: **MAS** (average tube current (mA) times mA waveform exposure time)

Line 2: **EXPOSURE TIME** (mA waveform exposure time in seconds)

Line 3: **MA (**average tube current (mA) over the entire mA waveform)

Line 4: **Three sample mA waveform values :** (with no delay)
- *The 1st waveform value represents the average mA for the 1st 50 milliseconds of exposure.
- *The 2nd waveform value represents the average mA for the 2nd 50 milliseconds of exposure.
- *The 3rd waveform value represents the average mA for the 3rd 50 milliseconds of exposure.

Features of the MAS-5 include: **A button that causes the meter to include/exclude the first 10 milliseconds of exposure**; a diagnostic power-up sequence to indicate operational status; auto LCD update; an automatic reset; automatic power-down when meter is not used for more than five minutes; displays blanks when an exposure is being made; and a low battery indication.

SPECIFICATIONS

RESET: Automatic reset & LCD update
DYNAMIC RANGE: 10 to 2000 mA
0.1 to 999.9 MAS
1 ms to 6.535 sec

Operating Temp: 15 to 35º C
Power: one 9V battery
Typical battery life: > 40 hrs.
Size: 4"x 6.5"x 1/3"
Weight: 10 oz.

ACCURACY: MAS = ± 0.1 MAS or 1% (whichever is greater)
MA = ± 1 mA or 0.5% (whichever is greater)
Time = ± 1 ms or 1% (whichever is greater)

163 St.Malo Street ▪ St.Malo, Manitoba R0A1T0 ▪ Canada ▪ (204)347-5757 ▪ Fax: (204)347-5360 ▪ diagim@conexe.ca