

Model Cobia Flex Flexible X-ray QC



Ludlum Measurements, Inc.

Features

- Quickly Ascertain X-Ray Output Accuracy
- Large 320 x 240 Pixel Color Display
- Built-In mAs for Versatility
- Display Rotates for Ease of Positioning

Cobia Dose Probe
Part Number 99-9916



Model Cobia Flex R/F
Part Number 99-9905



Introduction

The Cobia-Flex is the next generation of Cobia Smart multimeter for Diagnostic QC measurement. The unit has an internal detector and offers the ability to connect different probes and ion chambers, as well as, mAs and light measurement devices. These features can be added as needed in order to provide the user the most economical solution for their QC needs. The measured values can be read directly from the large easy to read screen and can also be stored in the device to be read later. The units are simple to use and require no on-site calibration adjustments. There is also a very useful battery indicator to let you know how much measurement time is left. All versions of the Cobia come to you calibrated by an accredited lab and a two year warranty. There is even an option to purchase an extended warranty of up to Ten Years.

The Cobia Flex offers direct reading of mA (tube current) and mAs in a very easy and convenient way. With its built-in mAs function you only have to plug in the mAs cables from your Cobia into mAs socket of the X-ray generator.

The Cobia Flex has no position dependence, just place it under the beam and make sure the detector area is irradiated. It is easy for everyone to use and gives you an accurate result. If you need to use a probe you just plug it in and the Cobia Flex will notice automatically.

With Cobia Flex there is no need to reset between your measurements, so you can stay in the control room until all your measurements are made. The practical log function makes it possible for you to read your measurements when you have the time.

Specifications

MINIMUM EXPOSURE TIME: 0.1 ms

AUTO COMPENSATIONS: 1.5 – 45 mm Al Equiv (Flex 1.5 mm Al - 1.4 mm Cu)

SENSITIVITY: 0.2 mA @ 50 kVp, 50cm (3 mm Al)

PARAMETER	RANGE	ACCURACY
Tube Voltage	38 – 155 kVp	± 2%
Time	0 ms – 2000 sec	± 1% or ± 0.33 ms
	3 – 9999 pulses	-----
Dose	60 nGy–1700 Gy	± 5%
	7 µR/s – 200 kR	± 5%
Dose Rate	2.5 µGy/s –175 mGy/s	± 5% or ± 200 nGy/s
	0.3 mR/s – 20 R/s	± 5% or ± 20 µR/s
	17 mR/min – 1200 R/min	± 5% or ± 1 mR/min
	1 R/h – 70 kR/h	± 5% or ± 70 mR/h
HVL	1.2 – 14 mm Al	± 10% or +/- 0.2 mm
Auto-Comp	1.5 mm Al – 1.4 mm Cu	NA
Total Filtration	1.0 – 55 mm Al	±10 % or ±0.3 mm Al
Pulse frequency	1/6 – 260 Hz	±5 % or ±0.2 Hz
Dose/pulse	10 nGy/p – 1 Gy/p	±5 %
	1.1 µR/p – 120 R/p	±5 %
Effective time	0 ms – 1999 s	±1 % or ±0.33 ms

POWER: external power supply / internal battery (battery life 10 - 20 hours)

PHYSICAL: SIZE: 13.8 x 7.6 x 2.7 cm (5.4 x 3 x 1 in.) (L x W x H);

WEIGHT: approximately 290 g (10.2 oz.)



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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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