

X-Ray Quality Assurance

Unfors CT Meter



From the new generation of non-invasive X-ray meters, Unfors Instruments introduces the Model 601 Mult-O-Meter. The new Mult-O-Meter 601 offers a cost effective and rapid way to measure kVp, dose and exposure time of any CT machine. The meters from Unfors Instruments are designed with the aim to make the measurement procedure simple and straightforward. They also meet the Unfors concept: Accurate results, Pocket sized and 10 seconds to learn how to operate the meter.

The Mult-O-Meter is extremely easy to use. Only two buttons are used to control the instrument: On/Off and Parameter for scrolling the measured values. No set-up time is needed. The specially designed LCD clearly indicates measured value and unit together.

Model 601 measures kVp, dose and exposure time. The kVp range is 50 - 150 kVp and the dose range is 0.001 ~Gy - 9999 Gy (0.001 mR - 9999 R) in the range 90 - 140 kV. The solid state detector has a carbonated epoxy resin and a total active length of 100 mm. It is used for measurements of dose length products and CTDI. No high voltage is required and it presents a flat energy response.

Measured data can be transmitted via an infrared interface to Excel for report making. Several other models with different parameters including kVp, dose, dose rate and exposure time are available within the Mult-O-Meter family. The meters are calibrated to international traceable standards and CE approved. Unfors Instruments is certified against ISO 9001 and EN 46001.

Specifications

Dose CT	Range (auto): 10 μ Gy - 9999 Gy, (1 mR - 9999 R) Energy dependence: < 5% at 4mm Al +0.1mm Cu, (90 - 140 kVp)
Time	Range (auto): 1 ms - 9999 s measured with the trigger detector Inaccuracy: 0.5 % or 3 digits

Unfors 603 CT Meter—kVp and Dose

Unfors 601 CT Meter—Dose

