Connect ...
NOMEX® Multimeter

- Compact multi-parameter measuring device compliant with IEC 61674 for acceptance testing and routine quality control measurements on diagnostic X-ray units (different models available e.g. for RAD/FLU, DENT, CT, MAM, IGRT)

- Connection of the CE marked class IIb certified device to a PC via USB

- Single exposure simultaneously captures: dose, dose rate, dose per pulse, pulses, frequency, irradiation time, tube voltage, total filtration, half value layer, together with waveforms for both kV and dose rate and mAs (optionally)

- Dose and dose rate measurements at a total filtration up to 2.5 mm Cu possible

- kVpmax, kVpmean and practical peak voltage (PPV) calculation according to the algorithm of IEC 61676

- True Precision: Dose accuracy within the RAD/FLU range typically ± 1.5%, within the MAM range ± 2.5%, long term stability ± 1 % per year, dose stability for exposures up to 40 Gy ± 1 %
NOMEX® Multimeter

- Angular independent for positioning within the beam
- Ergonomic housing avoids shifting after positioning
- Automatic start/stop and auto reset functions
- Automatic dose and kV ranging avoids double exposures
- Automatic total filtration compensation up to 55 mm Al
- Automatic HVL detection for all applications incl. MAM
- Optional mAs measurement (invasive or non-invasive)
... evaluate.
NOMEX® Multimeter

- Modifiable parameter displaying (view all parameters at a glance or just selected ones)
- Statistic calculations (mean value, standard deviation, coefficient of variation) by simply marking the results of interest
- Automatic data export to Track-it®
- Data and waveform export as XLS, XML or CSV file for subsequent data processing
- Export of measurement data directly to a connected Excel workbook possible
- Software menu available in different languages (German, English, French, Spanish, Portuguese, Italian, Russian, Chinese, Japanese)
## Technical Data

### Measuring ranges

<table>
<thead>
<tr>
<th>Parameter</th>
<th>R/F/D/CT</th>
<th>Sensitivity mode</th>
<th>Trigger level</th>
<th>Air kerma rate R/F/D/CT</th>
<th>kV R/F/D/CT</th>
<th>Total filtration</th>
<th>HVL R/F/D/CT</th>
<th>Air kerma rate MAM*</th>
<th>Air kerma MAM*</th>
<th>kV MAM*</th>
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<th>Dose per pulse</th>
<th>Pulses</th>
<th>Frequency</th>
<th>Irradiation time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air kerma rate R/F/D/CT</td>
<td>5 μGy/s ... 500 mGy/s, ± 3.5 % (typically ± 1.5 %)</td>
<td>0.1 μGy/s ... 500 mGy/s (typically ± 5 %)</td>
<td>min. 10 nGy/s (typically)</td>
<td>50 nGy ... 500 Gy, ± 3.5 % (typically ± 1.5 %)</td>
<td>(40 ... 150) kV, ± 1.5 % or ± 1 kV (typically ± 0.75 % or ± 0.5 kV)</td>
<td>(1.5 ... 40) mm Al, ± 10 % or ± 0.5 mm Al</td>
<td>(0.95 ... 13.5) mm Al, ± 10 % or ± 0.25 mm Al (typically ± 0.1 mm Al)</td>
<td>50 μGy/s ... 500 mGy/s, ± 2.5 %</td>
<td>0.5 μGy/s ... 500 Gy, ± 2.5 %</td>
<td>(20 ... 49) kV **, ± 0.5 kV</td>
<td>(0.25 ... 0.75) mm Al, ± 0.01 mm Al</td>
<td>50 nGy ... 500 Gy, ± 3.5 % (typically ± 1.5 %)</td>
<td>0 ... 99999</td>
<td>0.2 Hz ... 500 Hz</td>
<td>1 ms ... 298 h, ± 0.01 % or ± 0.5 ms</td>
</tr>
</tbody>
</table>

### Additional Information

- **PC interface**: USB V2.0 full speed
- **Outer dimensions**: 115 mm x 50 mm x 9 mm
- **Weight**: 250 g

*valid for: Mo/30μmMo, Mo/25μmRh, Mo/250μmCu, W/50μmRh, W/50μmAg, W/0.7mmAl, W/1.1mmTi, W/300μmCu, Rh/25μmRh, Rh/30μmAg, Rh/250μmCu **depending on the radiation quality

**Ordering information**

[L981815] NOMEX Multimeter all-in for measurements in R/F/DENT, CT, MAM. Includes NOMEX® Multimeter, software on CD, 2 m USB and 5 m long active extension cable, calibration certificate, user manual and transport cases. Requires connection to a PC.

Different models each with/without mAs option are available.

**Accessories**

- [L981530] NOMEX® mAs
- [T20016] NOMEX® Multimeter holder
- [T20017] NOMEX® cassette adapter
- [E41700B,S,G] NOMEX® service contract Bronze, Silver, Gold

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[PTBW] Knowing what responsibility means