



VACUTEC

VACUDAP *BLUETOOTH*[®] WIRELESS DAP METER

General

The Dose Area Product (DAP) Measuring System VacuDAP is an accessory for radiography and fluoroscopy diagnostic X-ray equipment and is perfectly suitable to monitor the patient dose in radiological applications according to the local regulations. The wireless solution VacuDAP *Blue-tooth*[®] provides advantages especially for portable and mobile X-ray systems.



VacuDAP Bluetooth[®]

- Measurement of Dose Area Product, Dose Area Product rate and irradiation time
 - Wireless data transfer between display unit and measuring chamber
 - Direct data transfer to a X-ray system/PC via *Bluetooth*[®] technology
 - The omission of cable installation makes it an economic and timesaving solution
 - Voltage supply of DAP chamber by rechargeable Li-Ion battery or plug-in power supply
 - Display unit is powered by a plug-in power supply
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- Serial interface RS232 at display unit for data transfer to a RIS system or for connection to an optional printer
 - Wireless solutions are also provided for VacuDAP-C and VacuDAP-C *duo* using the Adapter *Bluetooth*[®]



Adapter (for additional filter)



Battery for VacuDAP



Display *Bluetooth*[®]

General technical specification / Rated range of use:



| | VacuDAP Bluetooth® | VacuDAP Bluetooth® with display unit |
|----------------------------|--|---|
| Chamber dimension [mm] | | 185 x 140 x 18 REF 156 00 14 |
| | | 209 x 164 x 18 REF 158 00 14 |
| Active area [mm] | | 123 x 123 REF 156 00 14 |
| | | 147 x 147 REF 158 00 14 |
| Display unit | N.A. | Display Bluetooth® REF 943 00 06 Dimension: 169 x 94 x 37 mm ³ |
| Power for display | N.A. | Plug-in power supply EU,UK,US,AU,WW 950 00 75-xy |
| Power for chamber | | Battery for VacuDAP, Dimension: 102 x 50 x 27 mm ³ REF 950 00 84 Operation time: 24h |
| | | AC/DC converter 950 00 62 |
| | | Plug-in power supply EU,UK,US,AU,WW 950 00 75-xy in combination with Cable for power supply 950 00 61-xy (6, 10, 15, 20 m) |
| Rails and adapter | | Guide-pair 147, 150, 152, 170, 176 mm |
| | | U-guides 132, 140, 150 mm |
| | | Adapter (for additional filter) 140, 147, 152, 170, 171, 176 mm |
| | | Universal Adapter 140 ... 190 mm |
| Printer | N.A. | Label printer ZD410 REF 950 00 80 Printer cable 943 00 36 |
| Interface | Bluetooth® | RS 232 at display unit (sub-D 9 pin) PC connection with Nullmodem cable 943 00 38-xy (3, 5, 10 m) |
| Digital resolution – DAP | | 0.01 µGym ² |
| Measuring range – DAP rate | | 6 ... 2 220 000 µGym ² /min |
| Time resolution | | 1 ms |
| Radiation quality | | 40 ... 150 kV |
| Atmospheric pressure | | 80 ... 106 kPa |
| Temperature | | +10 ... +40 °C |
| Air humidity | | 10 ... 80 % rel. humidity (max. 20 g/m ³) |
| Standards | IEC 60580, IEC 60601-1 as well as prerequisites for IEC 60601-2-43, IEC 60601-2-54 | |


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