VacuTec Meßtechnik GmbH

VACUDAP-C & VACUDAP-C *BLUETOOTH*®

IONIZATION CHAMBER WITH SEPARATED ELECTRONICS

General

The Dose Area Product (DAP) Measuring System VacuDAP is an accessory for radiography and flu- oroscopy diagnostic X-ray equipment and is perfectly suitable to monitor the patient dose in radiolo- gical applications according to the local regulations.
The various dimensions of the ionization chamber and the separated electronics are customized to fit the special requirements of C-arm machines, especially for fluoroscopy procedures. The high di- gital resolution makes VacuDAP-C suitable for pediatric examinations.

VacuDAP–C

- Full integration under the housing of the X-ray machine
- Data transfer via RS485 interface to X-ray system or VacuTec display unit
- Optional CAN bus converter can be connected to the electronics to provide a CAN compatible interface (ISO 11898)
- RS232 available at certain models or possible due to RS232/485 converter cable
- If display unit is used printer can be connected
- RS232 at display unit

VacuDAP–C *Bluetooth*®

- Wireless communication between measuring electronics and host computer or VacuDAP display unit via Adapter *Bluetooth*®

CAN-BUS-Converter REF 952 00 65/66

Adapter *Bluetooth*® REF 943 00 41

REF number	Outer dimension Ion chamber [mm]	Active area Ion chamber [mm]	Light trans-parency	Weight Ion chamber [g]	Interface/connector at electronics*
DAP Ion chambers + Electronics (only available as pair)					
159 xy+922 wz	Ø 60	Ø 44	no	22	RS485, MEDI-SNAP®
159 01+922 22	Ø 90	Ø 68	yes	100	RS485, MEDI-SNAP® RS232-U, 9 pin Sub-D RS232-U, 5 pin Molex
159 xy+922 wz	Ø 100	Ø 72	no	55	
159 13+922 24	Ø 157	Ø 100	yes	240	
160 03+922 27	100 × 105 × 18	86×86	yes	100	RS232-U, 5 pin Molex
160 16+922 26	158 × 140 × 18	123 × 123	yes	190	RS485, MEDI-SNAP®
160 18+922 26	182 × 164 × 18	147 × 147		250	
160 01+922 13	290×31×20	242×8	no	170	RS232-U, 9 pin Sub-D
Electronics REF 922 00 xy: dimension (80 x 50 x 17) mm³, weight 135 g					

*Ion chamber + Electronics with RS485, MEDI-SNAP® can be equipped with display unit

	VacuDAP-C	VacuDAP-C with display unit
Display unit	N.A.	Display fluoro REF 943 00 04
		Adapter *Bluetooth*® + Display *Bluetooth*® REF 943 41+943 06
Display dimension	N.A.	169 x 94 x 37 mm³, 220 g
Cable	Interface-cable RS232 952 00 61-xy (3, 5, 6, 15, 20, 25, 30 m)	Cable MEDI-SNAP® 943 00 40-xy (6, 15, 20, 25, 30 m)
Power supply	Plug-in power supply EU, UK, US, AU, WW 950 00 75-xy in combination with Interface cable RS232	Plug-in power supply EU, UK, US, AU, WW 950 00 75-xy
Printer	N.A.	Label printer ZD 410 REF 950 00 80 Printer cable 943 00 36
Interface	Serial interface RS485, (MEDI-SNAP®)	RS232 at display unit (sub-D 9 pin) PC connection with Nullmodem cable 943 00 38-xy (3, 5, 10 m)
	USB with USB-Converter 952 00 67	
	RS232-U at 9 pin sub-D or 5 pin Molex	
	CAN bus with CAN-BUS-Converter 952 00 65/66 (sub-D 9 pin/RJ45)	
	Bluetooth® with Adapter *Bluetooth*® 943 00 41, 58 × 39 × 20 mm	
Digital resolution – DAP	0.0004 ... 0.02 µGym² depending on REF no.	
Measuring range – DAP rate	0.3 ... 8 000 µGym²/min to 10 ... 100 000 µGym²/min depending on REF no.	
Time resolution	1 ms	
Radiation quality	35 ... 150 kV	
Atmospheric pressure	80 ... 106 kPa	
Temperature	+10 ... +40 °C	
Air humidity	10 ... 80 % rel. humidity (max. 20 g/m³)	
Standards	IEC 60580, IEC 60601-1 as well as prerequisites for IEC 60601-2-43, IEC 60601-2-54	

Active Radsys
www.activeradsys.it info@activeradsys.it
Tel: 0544 408071 Fax: 0544 201477

CE 0197