

General

- compact, movable stainless steel measuring trolley with:
 - aluminium vessel with $\square 5''$ Beta detector in a lead shielding (50 mm)
 - SMC 2100 version DS and UPAS 2100 version EMAODL
 - $\square 100$ mm aerosol inline filter with differential pressure control
 - control of absolute pressure with pump switch off
 - piston vacuum pump with pulsation compensating vessel
 - needle valve for flow adjustment
 - floating cone flow meter
 - options: dose rate survey unit and traffic light
- operational reliable combination of Serial Micro Channel SMC-DS and universal pulse processing electronics UPAS (desk housing)
- automatic re-start of the measurement after power cut
- processing of the counter results for noble gas measurement values in Bq/m^3 with wide adjustment possibilities for the user in the expert mode
- status judgement of the measurement results (measurement, alarm, failure) and clearly coloured indication on the monitor display and through a connectable traffic light respectively via floating contacts
- technical measurement support for repetitive test through the possibility to insert a beta source and to store the measuring values as connection values
- storage of up to 3000 data sets with the possibility of a data transfer to a PC based on Microsoft Excel[®]-VBA
- connection possibility of a bulky display with indication of measuring value and status
- connection possibility of a remote 4,3" TFT display with indication of measuring value, status and the measurement course as a graph



Technical Data

- **Detector** standard scintillation probe ND-135M with plastic disc of $\square 5''$ and 0,25 mm thickness, with 5'' photomultiplier, (original Gamma Müvek probe)
- **Air Pump** piston vacuum pump, 230 VAC, 50/60 Hz
- **Measuring Vessel** aluminium measuring vessel, measuring volume 1,7L, tangential discharge, suck out via vessel bottom, protection foil between measuring vessel and detector, opening for check source with M5 thread
- **Lead Shielding** over all 50 mm thick stacked up lead shielding, for measuring vessel and detector, lead ground plate screwed on the trolley, 6 removable lead rings
- **Measuring Trolley** compact, movable stainless steel trolley dimensions (L x W x H) 650 x 460 x 900 mm mass about 290 kg
- **Measuring Electronics** Serial Micro Channel SMC 2100 variation DS
- **Aerosol Pre-Filter** round filter of class „S“ according to DIN 24184 with diameter 100mm (4'')
- **Pulse Processing** universal pulse processing electronics UPAS 2100 aluminium desk housing $\frac{3}{4} \times 19''$, keyboard with soft keys and 5,6'' TFT colour display, UPAS 2100 firmware EMAODL
- **Connections UPAS 2100** traffic light
floating contacts
dose rate survey unit
recorder
local or remote display
connection to PC via RS232 interface
piston vacuum pump
- **Mains Connection** 230 VAC / 50 VA,
5 metres long recoiling mains connection cable,
2 free mains sockets on a distribution board