

WebiSmarts System

Measuring Range: 0.1 μ Sv/h to 10 Sv/h (0.01 mR/h to 1,000 R/h)

DPU-3 Area Monitor CAT: BAK-4388

Radiation Detection Division

WebiSmarts is a web-based software package which receives online radiation data from DPU-3 Area Monitors which are strategically installed throughout the cyclotron lab. Users can access Maps showing radiation levels on color coded Points thus presenting a detailed yet concise radiological map.

The DPU-3 is the latest addition to the renowned MediSmarts Area and Stack Monitoring System. Combining the same respected reliability which has made MediSmarts a world leader, with the latest state-of-the-art technology, the DPU-3 brings the 21st Century into your laboratory. The plastic (IP-65) cased Data Processing Unit can support one internal and 3 external detectors and an additional 4-20mA input..



Features

- Supports a Remote Detector Bracket which provides local audio and visual feedback on radiological conditions.
- Wall Mounted or Tabletop, IP-65 high impact plastic casing
- Large, easy to read, TFT display panel
- Displays user selectable Units of Measurement and Detector Name
- Ergonomically designed to function using only 4 push-buttons which activate multilingual menus
- Background color reflects radiation levels against threshold settings
- Audio Alarm upon over threshold or detector failure
- User selectable threshold levels over the entire range
- Distinctive Display with bar graph capability showing measuring units
- Automatic internal diagnostics
- Fast time responses while keeping the reading fluctuations minimal
- Cable length of up to 100 meters between Detector and DPU

Functions

- Automatic recognition of detectors
- Supports our full range of detectors and others
- Provides Wi-Fi, Ethernet, POE and Xbee connectivity
- The wide screen TFT color Display is configurable to show any of the parameter
- The Display can be setup to show up to 4 displays simultaneously
- Optional Battery backup for 9 hours after power failure
- Free software for diagnostics
- Calibration performed via the touch panel or remotely
- Data records are internally saved for a period of one year in cyclic fashion

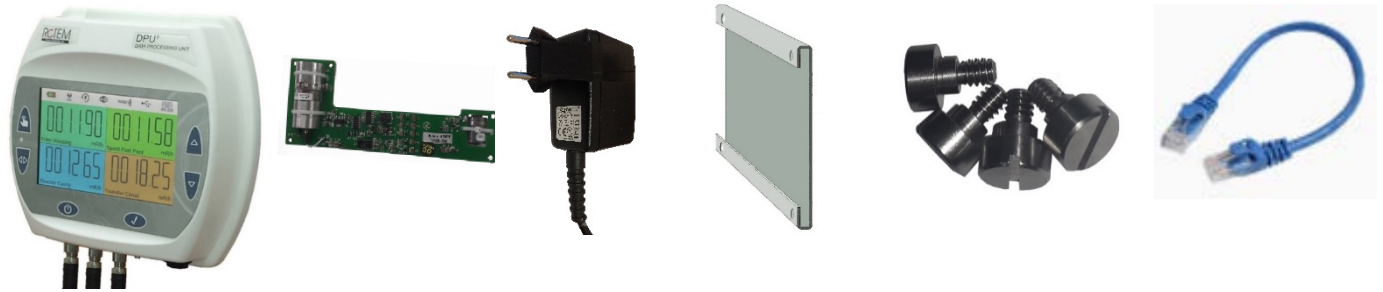


Remote Detector Bracket

DPU-3 Monitoring Channel

Includes:

- DPU-3 Meter** **Internal Detector** **Power Adapter** **Wall Bracket** **4 X Shoulder Screws** **Ethernet Cable**
 BAK-4385 BEN-2415 BAK-1114 MEC-9285 BAK-0381 WIR-0012



The Auxiliary Connector

Provides the following control options to peripheral equipment:

1. Input from the flow meter.
2. Output to an external light tower displaying the worst-case scenario from all four detectors.
3. Activates an Opto relay for each of the 4 detectors.
4. Provides a 4 mA to 20 mA output for each of the 4 detectors

Auxiliary	Flow Meter	External Light Tower	Opto Relay	4-20 mA		
1				4-20 mA Output Det. #1		
2	Require External 110VAC / 220VAC Power Source					
3				4-20 mA Output Det. #2		
4				4-20 mA Output Det. #3		
5				4-20 mA Output Int. Det. #0		
6						
7						
8						
9						
10	+24V OUT			24 GND		
11	Input (4-20mA)					
12	24 GND					
13						
14		Led Color	Wire Color	NPN transistor	150 mA	
15		ORANGE	Orange			Det #0
16		GREEN	Green	NPN transistor		Det #1
17		RED	Red	NPN transistor		Det #2
18				NPN transistor		Det #3
19						
20						
21		+24V OUT	Yellow	24V OUT		
22						

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

Indicated Use: Radiation monitoring from one internal and 3 external detectors.

Display: 7 inch HD Color Display showing up to 4 different detectors

Display Range: 0.00 to 9,999

Operating Range: 0.1 uSv/h to 10 Sv/h (0.01 mR/h to 1,000 R/h)

Sensitivity: 17 cps/mR/h, 0.3 cps/mR/h

Display Units: uSv/h, mSv/h or mR/h

Linearity : Readings within 10% of true value with detector connected

Response : Typically 2 seconds from 10% to 90% of final reading

Indicators :

Status : Green background no Error indicator, instrument functioning properly

Low Alarm : Yellow light and beep - can be set at any point from 0.0 to 9999

High Alarm : Red light and beep - can be set at any point from 0.0 to 9999

Det Fail : Red light and beep - can be set at any point from 0.0 to 9999

Low Bat : Battery indicator turns red less than 2 hours of battery power remaining. "Low battery" status is sent to the software.

Over-Range: display reading of -OFLO- indicate detector saturation

Remote: Any detector from any DPU-3 can be displayed by any DPU-3 or on our DPU-3 Remote Display

Ethernet: Built in Ethernet and POE capabilities.

Aux Connector: RS-485, 4-20 mA input and output , optional external light tower and dry contact

Calibration : Accessible from either our RMVC software or through the password-controlled command in the Meter's menu

Audio: Optional External loud, internal soft or mute mode

Telemetry Control: Xbee RF, 4G, Wi-Fi and others.

Power: External power adapter 110VAC/220VAC to 12VDC, POE through Ethernet cable and Optional battery backup (9 hours)

Battery Life: Typically 9 hours in non-alarming condition

Battery Charger: battery is continuously trickle charged when the instrument is connected to AC power and turned on.

Construction: High Impact Plastic (ABS-PC) with aluminum rear cover

Temperature Range: -25°C to +55°C (-13°F to 131°F)

Size: L x W x H: 230 x 76 x 252 mm (9" x 3" x 10")

Weight: 1.7 Kg (3.75 lb's)