

## WebiSmarts System

Measuring Range: 0.1  $\mu\text{Sv/h}$  to 40  $\text{mSv/h}$  (0.01  $\text{mR/h}$  to 4  $\text{R/h}$ )

DPU-3 Area Monitor CAT: BAK-4392

### 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<sup>3</sup> 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<sup>3</sup> brings the 21st Century into your laboratory. The plastic (IP-65) cased Data Processing Unit is capable of supporting one internal and 3 external detectors.



## Features

- 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
- Built-in dry contact for 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

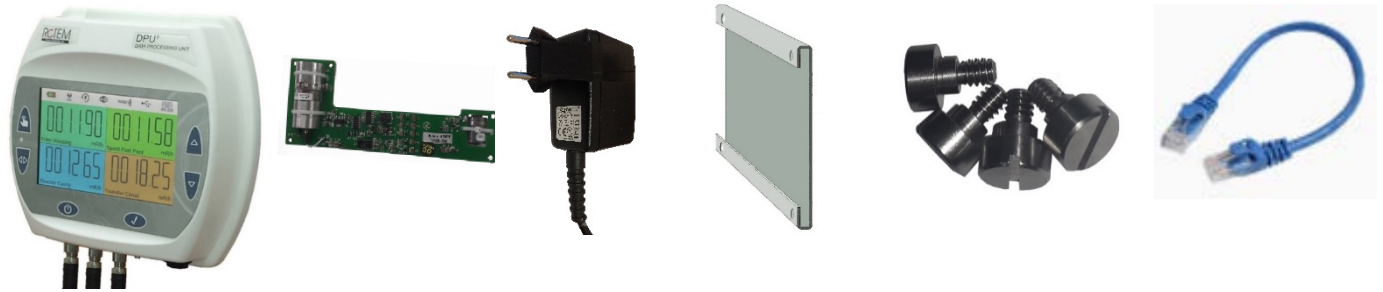
## Functions

- Automatic recognition of detectors
- Supports our full range of detectors and others
- Provides Wi-Fi, Ethernet, POE, Xbee, RS-485 and USB connectivity
- The wide screen TFT color Display is configurable to show any of the parameters
- 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 month in cyclic fashion

## DPU-3 Monitoring Channel

Includes:

**DPU-3 Meter**   **Internal Detector**   **Power Adapter**   **Wall Bracket**   **4 X Shoulder Screws**   **Ethernet Cable**  
 BAK-4385      BEN-2418      BAK-1114      MEC-9285      BAK-0381      WIR-0012



|                            |                         |  |
|----------------------------|-------------------------|--|
| <b>Internal Detector:</b>  | Measuring Range:        | 0.1 $\mu$ Sv/h - 40 mSv/h (0.01 mR/h to 4 R/h)   |
|                            | Sensitivity:            | 17 cps/mR/h  |
|                            | Energy Range:           | 50 keV to 1.3 MeV  |
|                            | Accuracy:               | $\pm$ 10% over the full measuring range  |
| <b>Casing:</b>             | Material:               | High Impact Plastic (ABS-PC) with aluminum rear cover  |
|                            | Dimensions:             | L x W x H: 230 x 76 x 252 mm ( 9" x 3" x 10")  |
|                            | Weight:                 | 1.7 Kg (3.75 lb's)   |
|                            | Environmental:          | Weather proof IP-65, CE Certified  |
| <b>Electronics:</b>        | Display:                | 7 inch HD Color Display  |
|                            | CPU Mainboard:          | ARM Cortex <sup>®</sup> -A7 core i.MX 6UltraLite (NXP)   |
|                            | CPU Detectors:          | ARM <sup>®</sup> 32-bit Cortex <sup>®</sup> -M3 CPU  |
| <b>Power Sources:</b>      |                         | External power adapter 110VAC/220VAC to 12VDC, POE through Ethernet cable and Optional battery backup (9hours) |
| <b>Interfaces:</b>         | 3 x External Detectors: | Serial (RS-485) or Digital pulse or Analogue pulse   |
|                            | AUX connector:          | RS-485, 4-20 mA , 24V External Power, optional light tower and Dry contact .                                   |
|                            | RJ-45:                  | Ethernet Cable   |
| <b>Telemetry Protocol:</b> | Xbee Series:            | RF, 4G, Wifi and others.   |

ROTEM INDUSTRIES reserves the right to change specifications without advance notice