

## WebiSmarts System

DPU-3 Area Monitor Spare Part CAT: BAK-4385

### 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

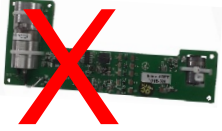
## Functions

- 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

**Does Not Include:**

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



**Casing:**

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)

**Electronics:**

Environmental: Weather proof IP-65, CE Certified  
 Display: 7 inch HD Color Display  
 CPU Mainboard: ARM Cortex®-A7 core i.MX 6UltraLite (NXP)  
 CPU Detectors: ARM® 32-bit Cortex®-M3 CPU

**Power Sources:**

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

**Interfaces:**

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

**Telemetry Protocol:**

Xbee Series: RF, 4G, Wifi and others.

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