RCTEM
Rotem Industries Ltd

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^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 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
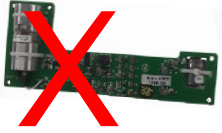Cable length of up to 100 meters between Detector and DPU

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	*Power Adapter*	*Wall Bracket*	*4 X Shoulder Screws*	*Ethernet Cable*
BEN-2415	*BAK-1114*	*MEC-9285*	*BAK-0381*	*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)
	Environmental:	Weather proof IP-65, CE Certified
Electronics:	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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