

WebiSmarts System

Measuring Range: 0.5 μ Sv/h to 10 Sv/h (50 μ R/h - 1,000 R/h)

DPU-3 Integrated W.R. Monitor CAT: BAK-4397

Radiation Detection Division



The DPU³ Integrated Wide Range Monitor is the latest innovative instrument designed to be used in clean rooms and provides the best possible user experience in Area Monitoring today. The DPU³ is capable of supporting three external detectors and one internal detector, with automatic identification from a wide range of external detectors up to 100 meters distant to the Monitor, The DPU³ can be powered directly from any AC source or Powered through POE. Radiation Data is sent from the DPU³ through the Ethernet cable. Color Coded background changes according to the radiation level, providing an excellent visual indication of the radiological conditions.

The 7" Display can be divided into 4 sectors showing data from remote detectors giving you the capability to see how manipulations inside the Hot cells affects the level of effluent leaving the exhaust ducts as well as other areas of interest.

Features

- IP-65, Hardened, High Impact Plastic Casing
- Supports 1 internal and 3 external detectors
- Auto recognition of ALL Rotem, and other detectors
- Wall or Tabletop mounted
- Large 7" HD Graphic Display with Status icons
- Background Color on Display reflects dose rate according to thresholds
- Multicolored LED provides visual reference to threshold levels
- Internal and optional High Volume buzzers
- Up to 100 yards cable between Detector and Meter
- Powered by external Power 110/220 VAC or POE
- Contains a dry contact solenoid to activate external devices
- Accepts any 4-20mA input from external devices
- Advanced communication: TCP/IP, RS-485, Wi-Fi, Xbee...
- Setup/Diagnostics via RMVC software
- Saves up to 1 months data internally
- Direct connection to Computer or network via standard Ethernet cable



Technical Specifications

| | | |
|---------------------------|---|---|
| Casing: | Aluminum Cover and Base with protective coating | |
| Display: | 7" HD Display background color according to dose rate | |
| Power Source: | External DC Power, POE and Internal Battery (optional) | |
| | Charging Time - 5 hrs. | |
| I/O: | 3 x External Detectors | Serial (RS-485) or Digital pulse or Analog pulse |
| | AUX connector 26 pin | RS-485, 4-20 mA, Ext. Power 24V, optional light tower and Dry contact |
| | RJ-45 | Ethernet Cable |
| | 10/100 BASE –TX PoE/IEEE 802.3 af/at compliant | |
| Temperature Range: | Operation: -25°C to +55°C (-13°F to 131°F) | |
| Humidity Range: | 40% to 95% RH (non condensing) | |
| Alert indicators: | Buzzer | 85 dB at 30 cm |
| | High Volume | 100 dB at 30 cm |
| Options: | Advanced Detector Bracket with 3 colored LED's and buzzer | |
| | Remote Light Tower (5 colors) showing Worst Case Scenario | |
| Dimensions: | 30 cmW x 35 cmH x 7.5 cmD (12" x 14" x 3") | |
| Weight: | 2.2 Kg (4.8 lbs) | |
| Internal Detector: | Included | |
| Detectors: | GM Tubes, ZP-1301 and ZP-1201 (or equivalent) | |
| Measuring Range: | 0.5 µSv/h to 10 Sv/h (50 µR/h - 1,000 R/h) | |
| Sensitivity: | 0.3 - 18 cps/mR/hr (¹³⁷ Cs) | |
| Accuracy: | ±10% of reading | |
| Units: | mR and mR/hr or µSv and µSv/hr | |
| Max Cable Length: | 100 meters/yards from Instrument to Detector | |

ROTEM INDUSTRIES reserves the right to change specifications without advance notice