InfraSolution® Z-3000

Rack Monitoring System PoE

Simple. Flexible. Compact

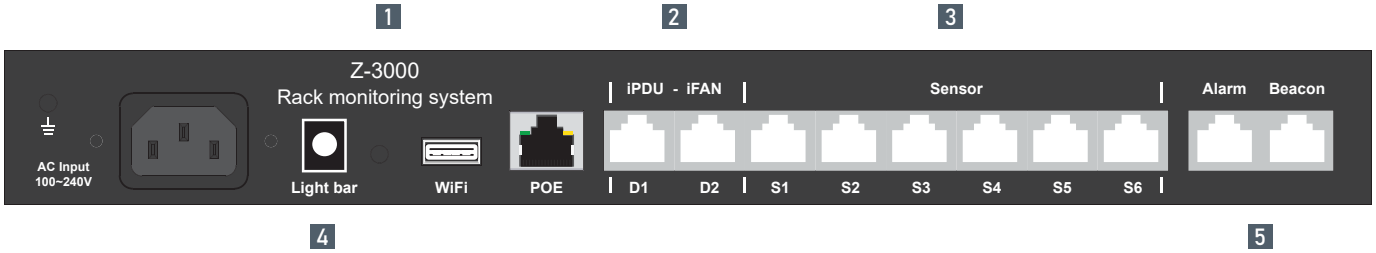
Rack monitoring has become critically important for all data centers and server rooms, serving as the first line of defense against downtime and operational inefficiencies. InfraSolution Z-3000 addresses this vital need with precision.

Z-3000 provides comprehensive rack monitoring of critical environmental, power, and airflow conditions to ensure your equipment operates at its peak.

AUSTIN® HUGHES

Intelligent Rack Monitoring System

Dimension (W x D x H) : 310 x 160 x 35 mm



1 Network & Power Connection

- **PoE (Power over Ethernet) :**
  - Connect to PoE switch for network IP access & power.
- **Alternative AC Input (100~240V) :**
  - If PoE power connection unavailable.
- **USB Port for** Optional WIFI kit.

2 iPDU & iFAN Connection

- **Intelligent PDU :**
  - 1-Phase 230V / 208V / 110V & 3-Phase 400V / 208V
  - 0U, 1U & 2U form factor.
  - C13, C19, Combo 4-in-1, NEMA, UK, GR or Mixed outlets.
  - Custom configurations available.
- **Intelligent Fan :**
  - Door mount fan & 1U fan tray.
  - 1U rackmount fan tray, 9 / 6 x fan kit.

* iPDU and iFan support cascading up to 4 respectively.

3 Sensor Connection

- **Temp.+ Humidity / Temp. Sensor (2m or 4m) :**
  - Low profile design with magnetic base to affix to rack.
- **Smoke Sensor (1m or 3m) :**
  - Smoke alert with red LED and continuous beep.
- **Shock Sensor (1m or 3m) :**
  - Physical vibration alert on the rack.
- **Water Sensor (3m) :**
  - Detect fluid leakage via 5M rope round the rack bottom.

4 LED Light Bar Connection

- **LED Light Bar (2m or 3m) :**
  - Mini design with magnetic base for tool-less affix.
  - Auto light on / off when door opens / closes, respectively.

5 Alarm & Beacon

- **Alarm :**
  - Connect to 3rd party alarm system.
- **Blue LED Beacon (1m or 3m) :**
  - Alerting user to alarm status.

Key Benefits

Remote Monitoring System of Rack Sensors & Multi-devices Over IP

- Wide range of sensors for complete environmental monitoring, including temperature, humidity, smoke, shock and water leakage.
- Integration support to 3rd party alarm system. Optional LED Beacon available for alerting user when problem occurred.
- Expandable to power and cooling management via connection to InfraPower M series Serial iPDU and InfraCool iFan respectively.

Save Manpower & Travel Costs

- Reduce manpower and travel costs by negating the need for staff to actually be at the rack location, improving uptime and productivity.

Enterprise Level IP Authentication

- Active Directory (AD), LDAPv3 / LDAPS. Remote Access Dial-In User Service (RADIUS) protocol, or local credential database.
- Strong passwords and granular user/user group permissions. Support high-speed network IP via Gigabit IP LAN port.

3rd Party DCIM & Software

- Supports 3rd party DCIM via SNMP V2 / V3
- Remote management protocols: HTTP(S); SSH Command Line Interface; Telnet; SMTP; IPv6/IPv4.

POE & WIFI

- POE reduces the implementation time of power cablings, negates the need for separate installation of data and power infrastructures.
- Optional WiFi kit (IPD-WIFI) complies with 802.11 g/n/ac.

Sensors & Peripherals

To maintain optimum operational conditions in data centers, getting instant notification of various environmental fluctuations is vital.

InfraSolution Z-3000 offers diversified sensor options for complete environmental monitoring, including temperature, humidity, smoke, shock, water leakage and door sensors. Optional peripherals such as flashing LED beacon and integration support to the 3rd party alarm systems are designed for use with the sensors for a comprehensive local environmental monitoring solution.

Z-DSW

Mechanical Door Sensor (Pair)

- Low cost / precise
- Cost efficient integration to new rack
- Size (52 x 22.5 x 30.75 mm)
- 2M cord
- Connect directly to handles

Z-DIR

IR Door Sensor (Pair)

- Light weight with magnetic base
- No custom cutting required on doors
- Mini size (33 x 19 x 7 mm)
- 2M cord
- Connect directly to handles

Z-TH01-2M / 4M

Temperature & Humidity Sensor

- Temp. & Humid. Accuracy : ± 0.2°C & ± 2% RH
- Low profile design with magnetic base for easy affixing to the rack
- Plug & play
- 2M or 4M cord

Z-T01-2M / 4M

Temperature Sensor

- Temp. Accuracy : ± 1°C
- Low profile design with magnetic base for easy affixing to the rack
- Plug & play
- 2M or 4M cord

Z-S01-1M / 3M

Smoke Sensor

- Once smoke alarm triggered, red LED lights on with continuous beep sound
- 1M or 3M cord

Z-V01-1M / 3M

Shock Sensor

- Once sensor alerted the physical vibration on the rack, red LED lights on
- 1M or 3M cord

Z-W01-3M

Water Sensor

- Fluid leakage detection
- 5M rope round the rack bottom to detect any fluid flowing to the rack area
- IP65 cable joint connectors provided
- 3M cord

Z-FB03-1M / 3M

Blue LED Alarm Beacon

- Highly visible for alerting user to alarm status
- 1M or 3M cord

IPD-WIFI

WIFI Kit

- WIFI kit with 1M cord
- 802.11 g/n/ac WiFi
- Low-profile design wireless athena
- Magnetic base design for tool-less affix

CLB-IX-002 / 3

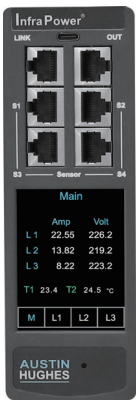
LED Light Bar

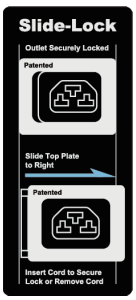
- Mini design with magnetic base for tool-less affix
- Auto light on / off when door opens / closes, respectively
- 2M or 3M cord

Multi-function Devices

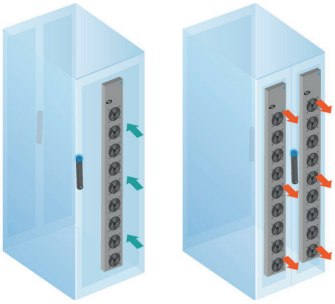
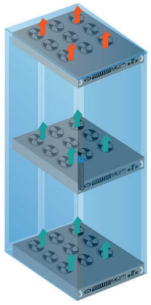
Rack iPDU InfraSolution Z-3000 supports InfraPower M-series Serial iPDUs, including a comprehensive range of 1-Phase & 3-Phase PDUs with a new design intelligent meter and lockable / combo IEC outlets.

Intelligent PDU Features		InfraPower M-Series			
		M	Mi	MS	MSi
Strip / Circuit Level Power Monitoring		●	●	●	●
Outlet Level Power Monitoring			●		●
Outlet Switching On/ Off				●	●
PDU Cascade Up to 4 levels under Z-3000		●	●	●	●
Billing Grade Meter Accuracy Within +/- 0.5%		●	●	●	●
Hot-Swappable Meter with 2.8" Color Touch ID		●	●	●	●
Field Replaceable DC Module		●	●	●	●
USB-C Port for Meter Backup Power Source		●	●	●	●
Sensor Support : Temp + Humid / Temp / Smoke / Door Sensors		●	●	●	●
Configuration Range :	110V, 208V, 230V, 400V, 415V and More Volt	●	●	●	●
	10A to 100A Amp Inputs	●	●	●	●
	0U, 1U & 2U form factor for standard models	●	●	●	●
Outlets :	C13 / C19 / Combo 4-in-1	●	●	●	●
	C13 + C19 / C13 + Combo 4-in-1	●	●	●	●
	(Slide-lock version available on request)	●	●	●	●
	Nema / UK / GR	●	●	●	●
	Nema + IEC / UK + IEC / GR + IEC	●	●	●	●
Safety Devices :	Hydraulic MCB / Resettable Fuse	●	●	●	●
	ELCR / Surge Protector / EMI Filter / RCM	●	●	●	●
Operating Temperature -5 to 60°C		●	●	●	●





Rack iFan Cooling the equipment is always important.
InfraBox Z-3000 can be connected to InfraCool intelligent fans for a complete rack airflow solution.

Intelligent Fan Features		InfraCool Fan Series	
		Door Mount Fan Panel RF-33.9	1U Fan Tray RF-1.6 / RF-1.9
Fan Number		9	6 / 9
Total CFM		972	648 / 972
Airflow			
		Front Door *Cool Air In* *Rear Door* *Hot Air Out* 	 *Top* *Exhaust hot air out* *Middle* *Equipment Cooling* *Bottom* *Cool air in*
Fan Cascade Up to 4 Levels to InfraBox		●	●
Temperatrure sensor bundled		1	1
Automatic Fan Speed Control		●	●
Control Panel :	Individual Fan On / Off	●	●
	Setting for Alarm Temp. & Unit CFM (fan speed)	●	●
	LEDs for Temperature, Fan Status, CFM Status	●	●