INSPECT®R™



INSPECTOR V3™ 24/7 Real Time Monitoring System



Inspector V3 ™ monitors environmental conditions, electrical parameters and any critical parameters needed by customers, suitable for any sophisticated systems, modalities, environment or facilities.

Applications:

- Health facilities & Blood banks
- Medical Equipment (MRI, CT, X-Ray, PET CT ...
- Food industries
- HVAC Systems







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INSPECTOR V3™

Cloud Based Monitoring System

Inspector V3 is a unique customizable system for real time monitoring based on cloud computing technology designed to be an advanced tool for data logging in any industrial, environmental and Medical application with wide varieties of applications.

The Inspector V3 monitors external conditions and critical parameters of any sophisticated systems, modalities, environment or facilities.

The cloud-based service of the inspector ensures excellent performance, high data security, cost effectiveness, scalability and avoid maintenance problem.

Inspector System Components

Customizable hardware based on customer's needs can monitor electrical and environmental parameters.

Internet connection through Ethernet (ADSL, 3G, WiFi) Cloud-based application Accessed through (Mobile, Tablet, PC and Laptop)



^{*} Internet Connectivity Provided by the Customer

Monitoring Parameters



Preventive and Predictive Maintenance

- Identify sources and frequency of any power line events
- Store the precise timing of events
- Develop maintenance schedules based on trend analysis

Decision-making support and mitigation plan

- Monitor, trend and conditions
- Analyze interruption, voltage sags, voltage swell and many power parameters
- Make decisions based on documented trends via our reporting service

Benchmarking and dash boarding

- Full access to all parameters on-line
- · Online alarms and statistics

Electrical power monitoring parameters

- 1. Three phase voltage measurements
- 3. Three phase current measurements
- 6. Ground to neutral voltage
- . Ground to neutral voltage
- 7. Ground resistance, Line Impedance, Loop impedance
- 8. UPS status (Survive or not)

9. Status of main input power

2. Power line frequency

4. Voltage imbalance

6. Ground current

- 10. Power events detection according to IEEE classification of power quality (IEEE Std 1195 TM 2009) which include:
 - Voltage Sags
 - Interruptions
 - Under voltage

- Voltage Swells
- Over voltage

Environmental Monitoring

Any type of environmental sensors can be interfaced to inspector hardware through our customization process. After this customization plug and play your sensor. The inspector hardware can interface to any types of sensors based on customer needs.



Inspector hardware provides a complete solution to your air or water temperature data logging needs and applicable to add more sensors and probes (Up to 128 sensors).



Inspector hardware provides an advanced humidity monitoring system in an environment or cold chain application and in another area of concern with wide varieties of applications.



Inspector hardware interface directly air quality sensor to measure the quality of indoor air and ensure the safety and comfort of workers in commercial and industrial environment.

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INSPECTOR V3™ Technical Specifications

Part No. BB0201030

Frequency range ure frequency from 45 to 65 Hz Voltage Imbalance Voltage imbalance percentage RTC Real time clock is configured to report events with accurate time in millisecond Sampling Rate 8μSPS/ channel (Sample/Second) Measurement Inputs Three channels Time Synchronization Auto clock synchronization to time server UTC using NTP protocol Events Unexpected power line events such as: (sags, swells, interruptions, over-voltage, under voltage) or events that cause device damage Event Trigger Voltage deviation of ½ cycle RMS voltage (<= 90%) or >= (110%) of set nominal Event Details Start and end of event is captured and reported accurately with 4 cycles before and after				
RMS Voltage range Current sensing rang O:30A Frequency range A Zero crossing detection technique is implemented to measure frequency from 45 to 65 Hz Voltage Imbalance Voltage Imbalance RTC Real time clock is configured to report events with accurate time in millisecond Sampling Rate Measurement Inputs Time Synchronization Events Unexpected power line events such as: (sags, swells, interruptions, over-voltage, under voltage) or events that cause device damage Event Trigger Voltage deviation of ½ cycle RMS voltage (<= 90%) or >= (1.10%) of set nominal Event Details Start and end of event is captured and reported accurately with 4 cycles before and after Periodic RMS Data Logging Maximum, Minimum and average voltage recorded for each 2 minutes period Data Storage Storage cache for (500) power quality events and (8000) readings, cleared after automatic upload to cloud virtually unlimited permanent event storage in Cloud server SD Memory Card Humidity Sensor Humidity Resolution 14 bit. (0.01% RH) Humidity Accuracy 12 General Resolution 14 bit. (0.01% °C) Temperature Renoulting Accuracy 15 ONTC	Power Quality			
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Temperature Accuracy ±0.3 °C Error Types NTC	Temperature Range	-40 - +125 °C		
Types NTC	Temperature Resolution	14 bit. (0.01% °C)		
	Temperature Accuracy	±0.3 °C Error		
Communication	Types	NTC		
	Communication			
Ethernet Supported	Ethernet	Supported		

Attached Units

SMB Specifications	Part No.		
SMB measures three parameters: Temperature, Humidity and air quality.	MODSB4B010		
Humidity Sensor Specifications		SMB	
Measurement Range	0-100 %RH	(pul) Power/Nadi	
Measurement Resolution	0.04 %RH- 12 bits		
Measurement Accuracy	±2 %RH		
Temperature Sensor Specifications			
Measurement Range	-40 - +125 °C		
Measurement Resolution	0.04 °C - 12 bits		
Measurement Accuracy	±0.3 °C		
Air Quality Sensor Specifications			
Target Gas	Ammonia gas, toluene, hydrogen, smoke, sulphide, benzene series steam.		
Detection Range	"10-~1000 ppm (ammonia gas, toluene, hydrogen, smoke)."		
Sensitivity	Rs(in air)/Rs(in 400ppm H2) ≥5		
Preheat Time	48 Hours		
Interface & Powering of SMB specifications			
Interface to Main Board	RS-485		
Power	12 volt – internally form Main Board		
Indicators	One LED (online, Alarm)		
Environmental & Mechanical Specifications			
Enclosure	ABS Plastic		
Operating Temperature	0-50 °C		
Storage Temperature	0-70 °C		
Relative Humidity	0-95% RH		
Weight	100 gram		

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CMB Specifications	Part No.	
CMB measures: Three phase electrical current values and earth current value. (Using current coils - noninvasive).	MODSB2A010	CMB PowerWadi

Three Phase Current Measurements Specifications (Current Coil Per phase) -Three Channels.

0-80A Max **Measurement Range Measurement Resolution** .1 A **Measurement Accuracy** 2% Max **Current coil Internal Hole Diameter** 16 MM

Current coil Dielectric Withstanding 2.5KV/1mA/1min Voltage(Hi-pot)

Current coil Impulse Withstand Voltage 5KV Peak

Current coil Insulation Resistance DC500V/100M Ω min

Current coil Approx. Weight 85 gm

Earth Current Measurements Specifications- One Channel.

Measurement Range 0-1A Max **Measurement Resolution** 1 mA **Measurement Accuracy** 2% Max

Alarm LED ON if earth current value > 250 mA

16 MM **Current coil Internal Hole Diameter**

Current coil Dielectric Withstanding Volt-2.5KV/1mA/1min

age(Hi-pot)

Current coil Impulse Withstand Voltage 5KV Peak

Current coil Insulation Resistance DC500V/100M Ω min

Current coil Approx. Weight 85 gm

Interface & Powering of CMB Specifications

RS-485 **Interface to Main Board**

12 volt - Internally form Main Board Power

Indicators Two LEDS (online ,Alarm)

Environmental & Mechanical Specifications

Enclosure ABS Plastic 0-50 °C **Operating Temperature Storage Temperature** 0-70 °C **Relative Humidity** 0-95% RH Weight 400 gram

HCMU Specifications

Part No.

HCMU measures: The efficacy of any pump or compressor. (Using current coils noninvasive).

MODSB3A010

Pump/Compressor Measurements Specifications (Current Coil Per phase) -Three Channels.

Measurement Range 0-80 A Max

.1 A **Measurement Resolution**

Measurement Accuracy 2% Max

Threshold for detection >1.5 A for All phases.

Alarm LED ON if pump or compressor is off

Current Coils Specifications The same specifications like CMB current coils

Interface & Powering of HCMU Specifications

Interface to Main Board RS-485

Power 12 volt - Internally form Main Board

Indicators Two LEDS (online ,Alarm)

Environmental & Mechanical Specifications

Enclosure ABS Plastic 0-50 °C **Operating Temperature Storage Temperature** 0-70 °C 0-95% RH **Relative Humidity** Weight 320 gram

Additional Item

MODB03A010

Disconnect Box

Part No.

The electrical disconnect box is a crucial component that safely isolates power to connected devices. It has two isolation stages to protect the user and equipment.

Safety features include two LOTO (Lockout/ Tagout) sets and an IP65-rated ABS enclosure. The box can be configured for delta or star

electrical connections.

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