INSPECTOR™

PW PowerWadi

Advanced Environmental Monitoring Solution

AIRWATCH

Your reliable partner for real-time environmental condition monitoring, designed for industrial, environmental, and healthcare applications.

Applications:

- **Industrial and Manufacturing Facilities**
- **Power Generation & Petrochemical Plans**
- **Healthcare Facilities**
- **Data Centers**
- **Offices and Indoor Spaces**

PW PowerWadi

CE

ISO 9001 CERTIFIED COMPANY

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Features

1. **Real-Time Monitoring:**
   Temperature, humidity, Pressure CO2, TVOC, NOx, PM2.5–PM10 levels, Formaldehyde, and Vibration.

2. **Connectivity Options:**
   Power over Ethernet (PoE), Ethernet, USB Type-C, Bluetooth, KNX and WiFi for easy integration.

3. **Embedded Web Server:**
   Access real-time data, monitor trends.

4. **Data Visualization and Trend Analysis:**
   Intuitive charts and graphs to track environmental conditions over time.

5. **Data Export:**
   Export logs in multiple formats, for analysis and reporting.

6. **Supported Communication Protocols:**
   Compatibility with various communication protocols including BACnet and KNX, for seamless integration

7. **Inspector Cloud Integration:**
   • Real-Time Data Sync: Access data anytime, anywhere.
   • Scalability: Cloud storage accommodates years of historical data.
   • Data Backup: Automated backups enhance security and prevent data loss.

8. **Secure Data Transfer:**
   End-to-end encryption for data sent to the Inspector Cloud.

9. **Memory & Storage:**
   8 GB internal storage with expandable storage options.

10. **Easy Installation:**
    Simple setup in just a few minutes.

AirWatch Standard Specifications

Specifications Model: **IRW-R1**	Part number: **BB0205A010**	
Humidity Sensor "Measurement Range"	**Resolution**	**Accuracy**
0 - 100 % RH	1% RH	±3 %RH
Temperature Sensor "Measurement Range"	**Resolution**	**Accuracy**
(0)°C - (+85)°C	0.1 °C	±1 °C
Pressure Sensor "Measurement Range"	**Resolution**	**Accuracy**
300 - 1100 mbar	1 mbar	±2mba
TVOC - Total Volatile Organic Component Range	**Resolution**	**Accuracy**
0 - 1000 ppm	1 ppb	±15 %
NOx - Mono Nitrogen Oxides Range	**Resolution**	**Accuracy**
0 - 10 ppm	1 ppb	±15 %
CO2 - Mono Carbon Dioxide Range	**Resolution**	**Accuracy**
0 to 1000 ppm	1 ppb	± (40 ppm + 5%)
PM - Particulate Matter Rang	**Resolution**	**Accuracy**
0 to 1000 μg /m3	11 μg /m3	(PM2.5) ± 10 μg /m3
Formaldehyde concentration Rang	**Resolution**	**Accuracy**
0-1000 ppb	< 20 ppb	±20 ppb
Ozone (O_3), Sulfur Dioxide (SO_2), H_2S, Co	Optional	

Vibration Sensor Specification	
Measurement Range	Up to ±8 g
Sensitivity	4 mg/digit
Accelerometer Type	Three-axis "Nano" accelerometer
Sampling Rates (Output Data Rate)	1-400 Hz (Sample Per Second)
Other Monitoring beside the vibration	Free-fall detection & shock and Impact

Communication and Connectivity	
Ethernet	10/100/1000Base-T (RJ45)
Power over Ethernet (PoE):	Ensures reliable power supply through Ethernet
WIFI	802.11b/g/n for wireless data access
Bluetooth	Bluetooth 5 for data access
USB	Type-C for data transfer and power options
KNX (Optional)	Twisted pair, KNX TP1-256 supported
Indicators	Two LED (online, Alarm)

Power Specifications	
POE Input Voltage	33 V to 72 V / 350mA IEEE 802.3af (PoE)
USB Input Voltage	5v/2.5A
Power Consumption	~ 12.5 W

Environmental& Mechanical Specifications	
Enclosure	ABS Plastic
Operating Temperature	0 - 50 °C
Storage Temperature	-20 - 60°C
Relative Humidity	0-95% RH
Dimensions	104 mm x 92 mm x 42 mm
Weight	120 g