ENVIRONMETAL MONITORING SYSTEM

ENVIRONMENTAL
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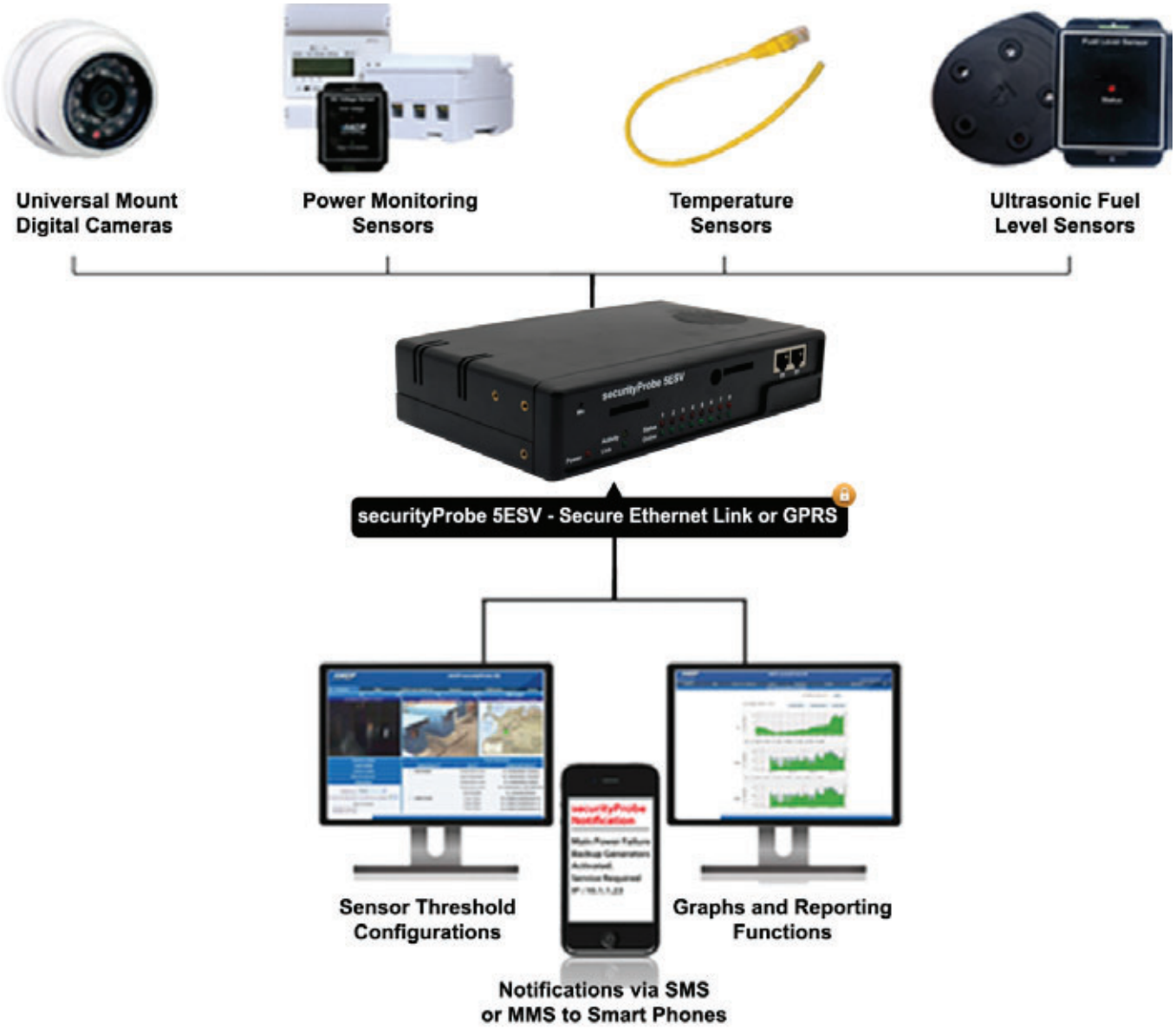
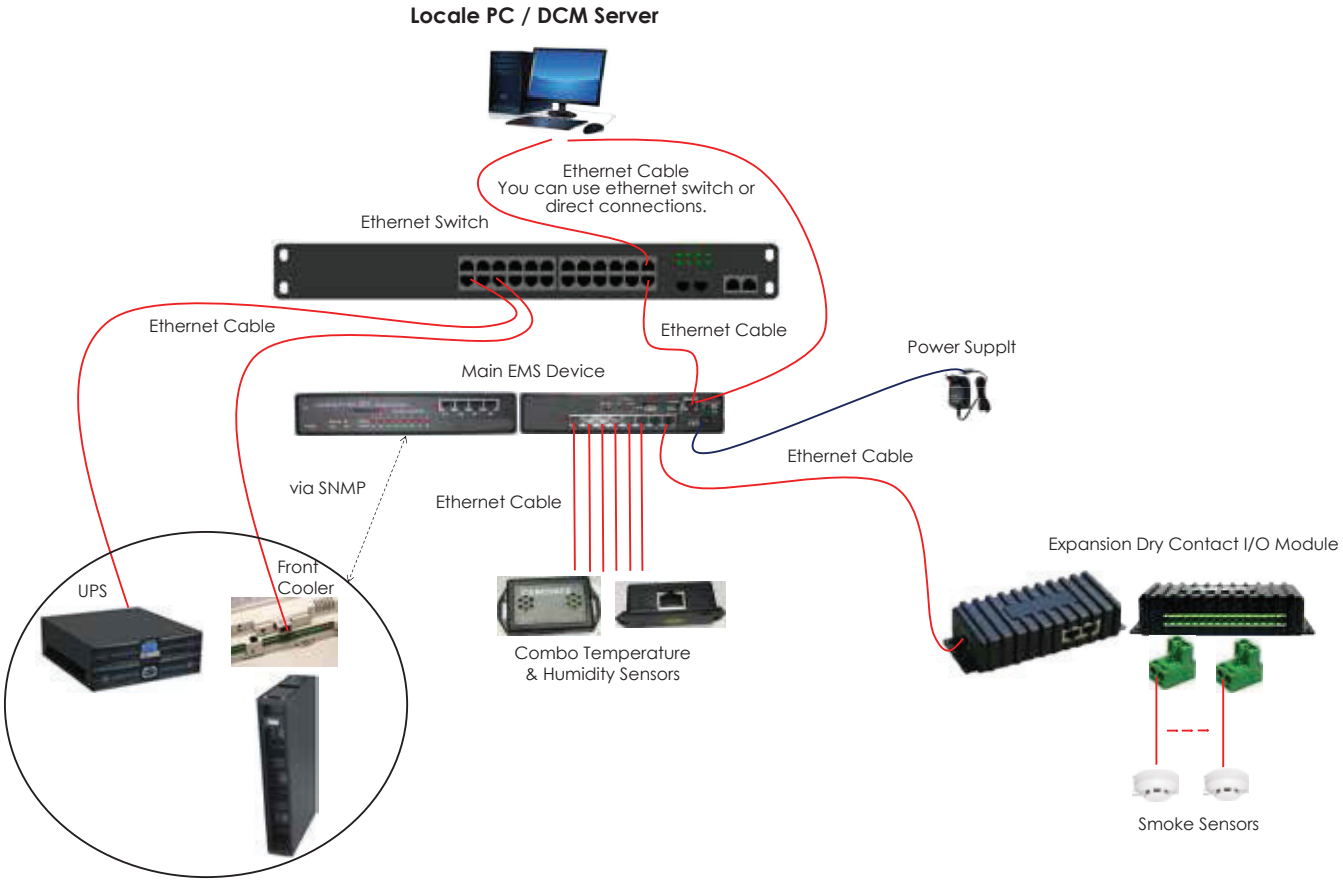


NETWORK MANAGEMENT SYSTEMS SUCH AS:

Up to 8 of Canovate's Intelligent Sensors can be connected to the DC-MON-MAIN08P-0X. When plugged in, the sensor automatically configures itself and goes online. Using the either the DC-MON-EXPO8P-SUB, or theDCMON-EXP16P-IN expansion modules, up to 500 sensors can be connected to single unit.

Our easy-to-use web based interface allows you to setup the DC -MON-MAIN08P-0X within minutes. When online, the sensors use their 4 levels of threshold checking and report any status change.

NETWORK TOPOLOGY OF MONITORING SYSTEM



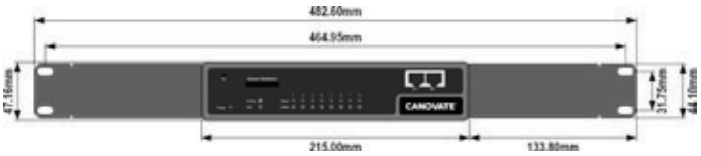
KEY FEATURES

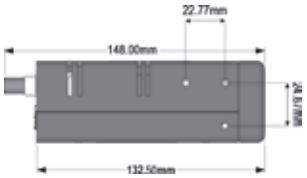
- Embedded web server display sensor information and live video from connected cameras.
- Receive notifications of anomalous events via email, SMS / MMSi SNMP traps, and many more.
- Integrates with network management systems via SNMPv1 and Encrypted SNMPv3.
- Stream sensor information directly to your cellphone or PDA.
- Ability to connect external GPRS / GSM modem, Blutooth and WiFi USB adapters.
- Uses Linux operating system for maximum stabilirty and flexibility.
- Virtual Sensors monitor power, Modbus, network devices and other SNMP based equipment.
- Built-in graphing and data logging, internally or to a remote PC.
- Platform independent; free firmware upgrades and utilities from Canovate.
- Monitor up to 500 intelligent range of Canovate Intelligent Sensors
- Full Modbus support: Modbus Master / Slave, Modbus RTU, Modbus over TCP / IP

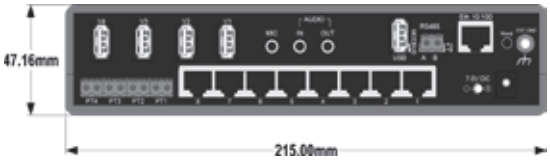
EXPANSION MODULES OF DC-MON-MAIN08P-0X

- 8 port intelligent Sensors Module (E-Sensor 8)
- 16 Port Dry Contacts Module(E-opto16)
- Extendable up to 1,000 Feet or 300 Meters

MAIN DEVICES







DC-MON-MAIN08P-01	Main EMS Device with 8x Sensors Input Ports & 2x Expansion Ports
DC-MON-MAIN08P-02	Main EMS Device with 8x Sensors Input Ports & 2x Expansion Ports & SIM Card Port
DC-MON-MAIN08P-VID-01	Main EMS Device with 8x Sensors Input Ports & 2x Expansion Ports & 4x BNC Video Ports
DC-MON-MAIN08P-VID-02	Main EMS Device with 8x Sensors Input Ports & 2x Expansion Ports & 4x BNC Video Ports & SIM Card Port

EXPANSION MODULES

DC-MON-EXP08P-IO	Expansion I/O Module with 8x Input_or_Output Ports (Dry Contact)
DC-MON-EXP08P-SUB	Expansion EMS Device with 8x Sensors Input Ports & 2x Expansion Ports
DC-MON-EXP16P-IN	Expansion I/O Module with 16x Input Ports (Dry Contact)
DC-MON-EXP04P-LOCK	Expansion EMS Device with 2x Sensors Input Ports & 1x Card Reader Input Port & 1x Lock Output Port

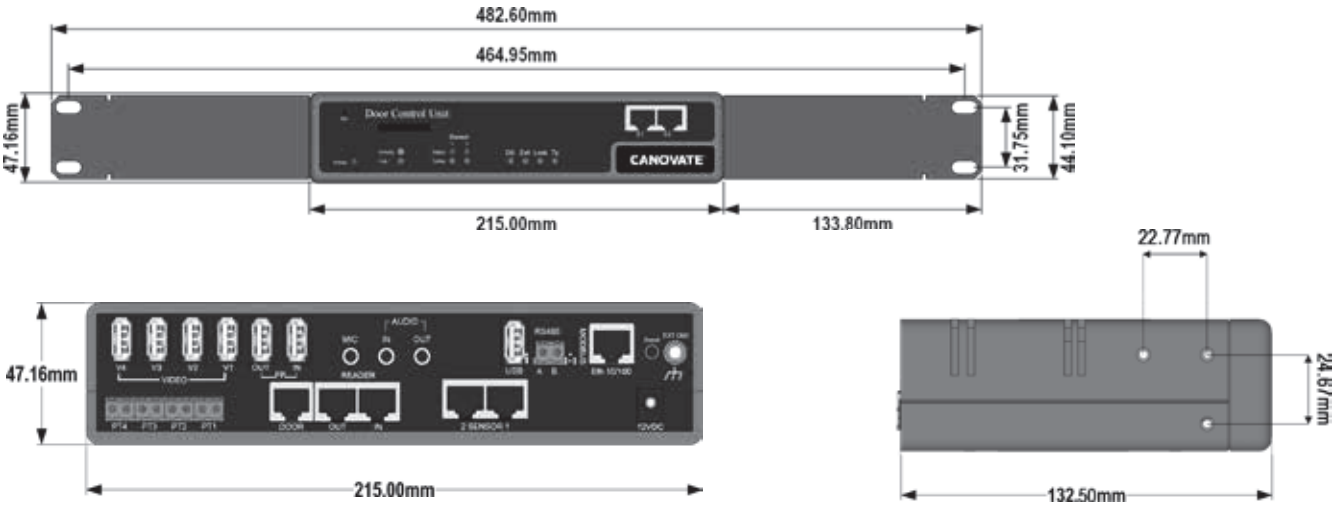
SENSORS AND SECURITY






DC-SENS-TH01A	Combo Temperature & Humidity Sensor with 3M extension cable (in rack cabinet usage)
DC-SENS-TH01B	Combo Temperature & Humidity Sensor with 10M extension cable (in cold/hot aisle usage)
DC-SENS-SM01A	Smoke Sensor for Black rack cabinets (Dry Contact)
DC-SENS-DO01	Magnetic Type of Door Sensor, Normally Close (Dry Contact)
DC-SENS-FL01	Spot type Float Sensor (Dry Contact)
DC-SENS-FLC1	Extension kit for Float Sensor with 5M cable
DC-SENS-FLC2	Extension kit for Float Sensor with 15M cable
DC-SENS-FL02C	Rope Type Water Sensor with 10M active sensing cable
DC-SENS-FLC2R	Extension kit for Rope Type Water Sensor with 15M connection cable
DC-SENS-AF01	Air Flow Sensor
DC-SENS-VS01	Voltage Sensor

DOOR CONTROL UNIT (DCU)



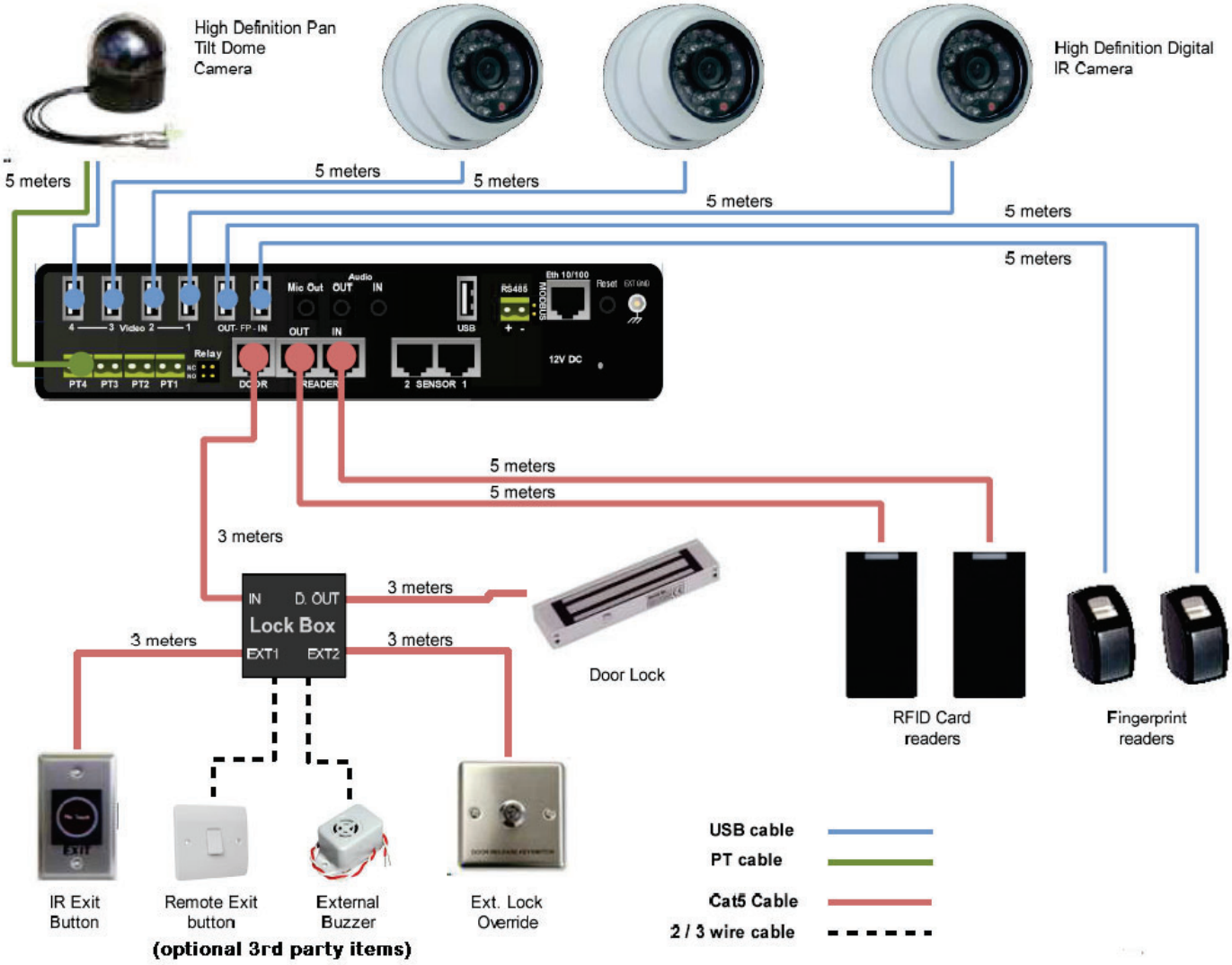
The primary reason that any company employs physical access control is for enhanced security and surveillance. Canovate has designed our Access Control Solutions to provide you with the most information possible in a customizable and adaptable interface to make implementation easy.

BIOMETRIC AND CARD READERS

In addition to recording live video of all access attempts, it allows you to further your security measures using our top of the line Access Readers. Access Readers are available in Card or Bio-Metric designs. Card reader access is controlled via Radio frequency identification cards which can be linked to individual users that automatically log users in or out, making payroll easy.

You can also upgrade from RFID cards to our high-resolution Fingerprint Reader that enrols users using their fingerprints for locations that require higher levels of security. It's advanced fingerprint scanners use a digitized reading of your finger as a security access key. These are very popular in government and military compounds and are becoming increasingly more popular for data centres and computer rooms. The Door Control Unit supports up to 5000 users and can be expanded upon using our accessible SD card feature.

DCU: ACCESSORIES CONNECTION



CABINET ACCESS CONTROL UNIT(CCU)

Simple Wizards makes implementation easy!
Used in conjunction with Canovate's Door Control Unit (DCU), the Cabinet Access Control Unit (CCU) seamlessly integrates using plug and play technology via RJ45, making expanding security to your cabinets easier than ever. Use the DCU to record and monitor all access to your server cabinets. Our card access reader supplies detailed reports on who accesses your cabinets and when.

DATA CENTER INFRASTRUCTURE MANAGEMENT (DCIM)

DCIM solutions are made up of a number of different components. At the infrastructure layer, they serve a range of enterprise IT tasks.

PHYSICAL STRUCTURE

A data center's floor space is allocated based on the following criteria:

- The equipment's physical size
- Cooling and airflow
- Accessibility to humans

DCIM technology aids you in visualizing and simulating the representation of server racks installed in the data center, allowing you to assess if the actual space is adequate.

In most cases, you'll deploy server and networking technologies in your data center using standardized cabinets. Understanding the nuances of rack design may assist data center operators in planning for capacity, space, cooling, maintenance, and troubleshooting. Based on these considerations, DCIM may assist in the selection and placement of server racks.

CHANGE MANAGEMENT

For a variety of reasons, data center gear must be updated on a regular basis:

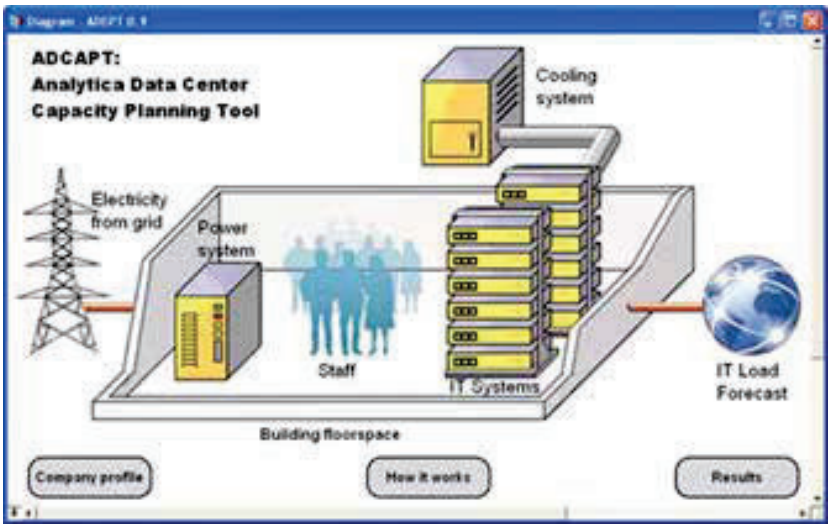
- The inherently limited lifecycle of hardware
- A malfunction
- The need to upgrade to a better product

However, this modification may have an impact on the performance of other integrated infrastructure technologies. DCIM helps IT to take a systematic approach to manage such hardware changes, allowing them to:

- Following predefined process workflows
- Reducing the risks associated with the change

PLANNING FOR CAPACITY

The data center should be scalable to meet changing business requirements. As a result, your capacity planning must take into account:



- Space limitations
- Weight of equipment and racks
- Power supply
- Cooling performance
- A range of other physical limitations of the data center

The DCIM program can simulate a wide range of future/potential situations, allowing you to design future capacity depending on these constraints.

INTEGRATION OF SOFTWARE

DCIM systems are meant to track and coordinate data center assets and activities and are linked with current management solutions. The following are examples of integrations:

- Protocols such as SNMP and Modbus
- Complex web integrations

ANALYZING DATA

DCIM technologies rely heavily on real-time data collecting and processing. You may use a DCIM tool to:

- Keep track of a wide range of asset parameters.
- Web-based APIs are used to transfer data across DCIM systems.
- Utilize sophisticated AI technologies to analyze data.

Looking at the indicators' real-time performance can help you prevent issues like power failures, security breaches, and network disruptions before they happen.

DASHBOARD AND REPORTING

A competent DCIM solution can turn massive amounts of logged data into easy-to-understand dashboards and reports. Using the reporting data, automated actions may be initiated and examined for further research.