

System benefits

- ✓ 24/7 Continuous Thermal Monitoring
- ✓ Small plastic non-contact IR sensors
- ✓ Fits INSIDE enclosure
- ✓ Integrates with host BMS/SCADA
- ✓ UL approved
- ✓ Lifetime calibration
- ✓ Unparalleled reliability
- ✓ Proven success
- ✓ New or retro fit
- ✓ Detects problems BEFORE failure

Main system components



IR Sensor



Sensors in position



Cable Sensor



Data Acquisition Card

Without POWER there is ...

NOTHING!

EXER THERM™

SPOTS POWER FAILURES BEFORE THEY HAPPEN

24/7 Continuous
Thermal Monitoring

Safeguard Mission Critical Equipment

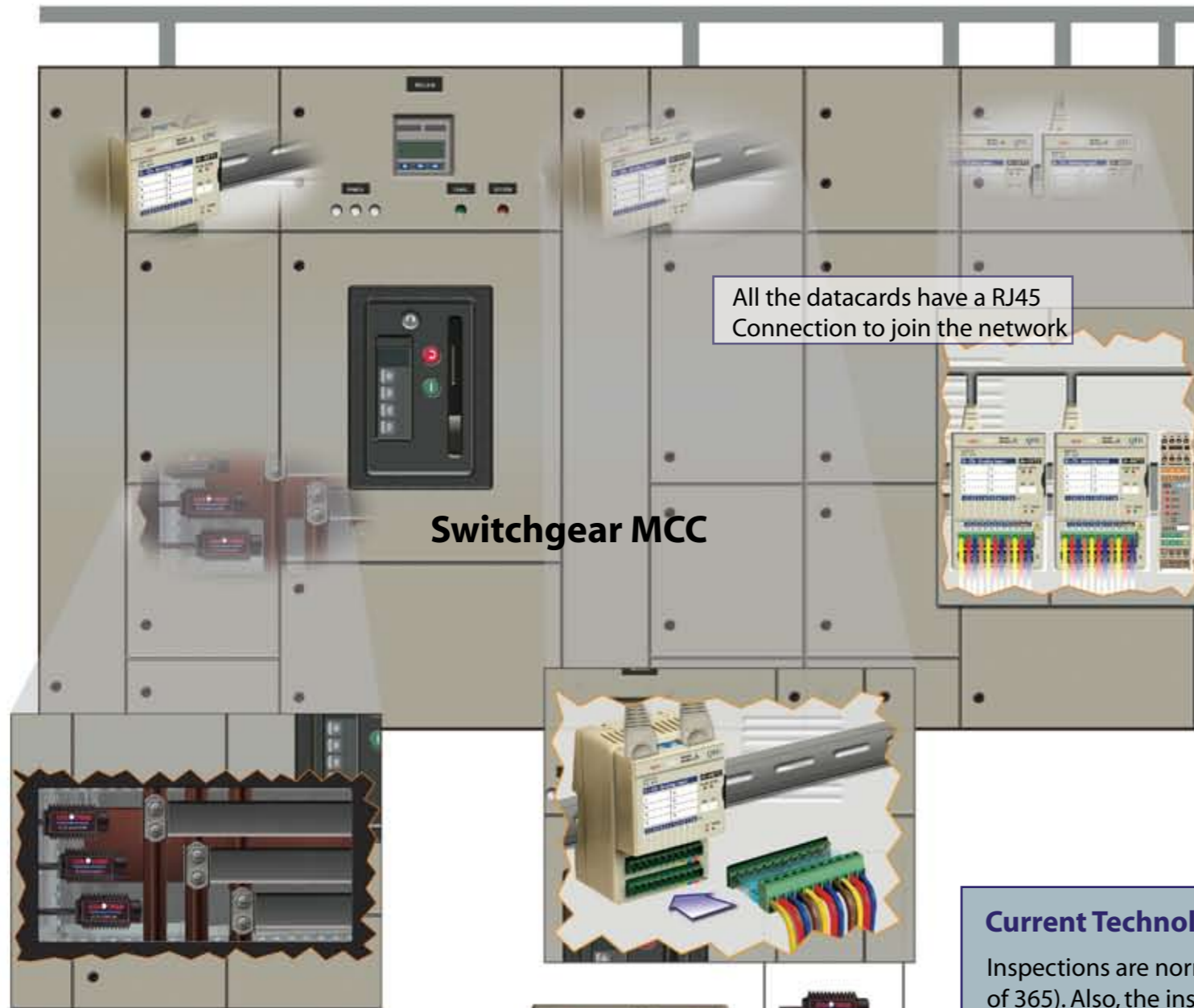
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ExerTherm - The Next Technology Step

CAT5/ModBus Network

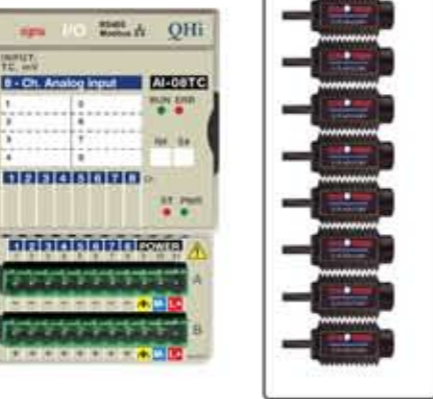


Switchgear MCC

All the datacards have a RJ45 Connection to join the network



Internal view of panel with Sensors in position



Each datacard can have 8 X Sensor inputs

What's the Problem?

In today's commercial environment the continued operation of mission critical buildings now has the objective of zero unscheduled downtime and minimal scheduled downtime.

The most common cause of electrical failure are bad connections. These cannot be detected via metering or load measurements, power quality etc. However, the thermal increase can be detected using thermally sensitive devices.

Current Technology

Inspections are normally carried out once or twice per year (1 or 2 out of 365). Also, the inspections are done from OUTSIDE the enclosure in which the equipment is located.

The Next Technology Step

Exertherm provides a major breakthrough by providing 24/7 CONTINUOUS Thermal Monitoring from INSIDE the enclosure, rather than periodic inspections from outside.

Exertherm provides capability for data logging/on-going trend analysis + 2 alarms per sensor to identify potential problems early.

Exertherm is easily installed (new/retro) & integrates with most BMS/SCADA systems.

How it works

Exertherm utilises small plastic IR sensors which require no external power. These are placed INSIDE the enclosure, directly monitoring key connections.

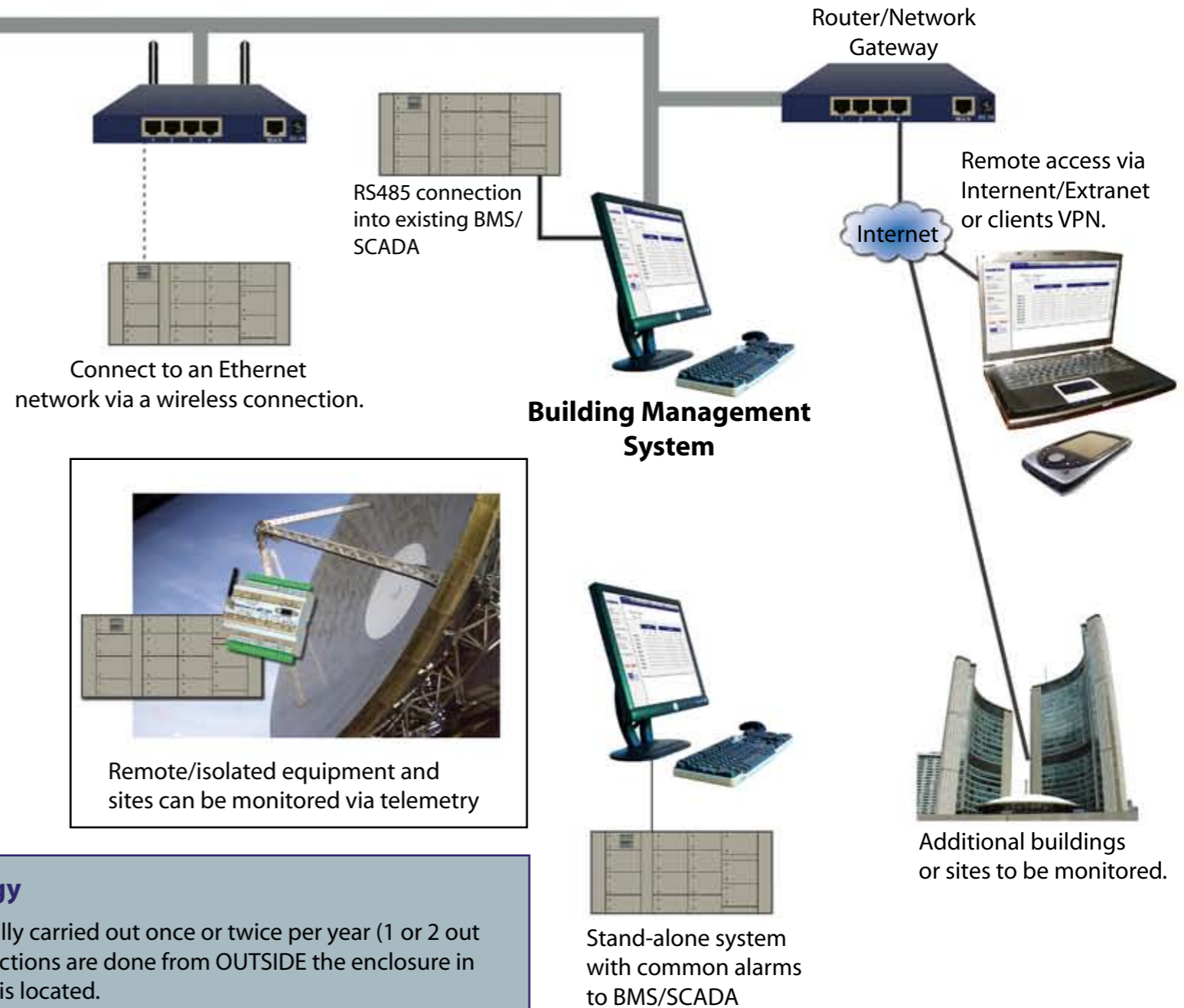
These connect to data cards (8 per card), which collect condition & transmit the data to the host system.

Data cards allow Modbus, Profibus

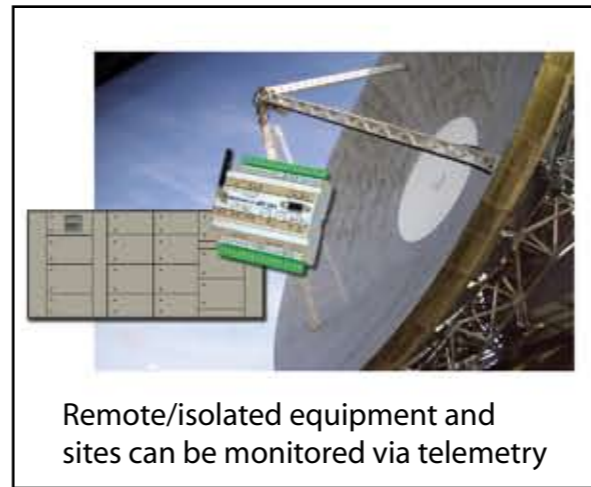
CANopen & Ethernet connection for easy integration.

Delivering the data to an existing BMS system is a straight forward process.

This facilitates the thermal monitoring of all critical equipment, not just in one building, but for any location via WAN Intranet/Wireless etc.



Connect to an Ethernet network via a wireless connection.



Remote/isolated equipment and sites can be monitored via telemetry

Building Management System



Stand-alone system with common alarms to BMS/SCADA

Internet

Remote access via Internet/Extranet or clients VPN.



Additional buildings or sites to be monitored.