

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



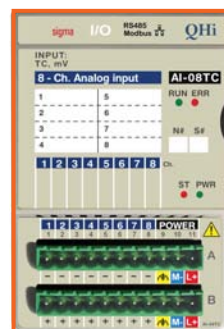
IR Sensor



Sensors in position



Cable Sensor



Data Acquisition Card

EXER THERM™

SPOTS POWER FAILURES BEFORE THEY HAPPEN

Without POWER there is ...

NOTHING!

24/7 Continuous
Thermal Monitoring

Safeguard Mission Critical Equipment

QHi -Systems

THERMAL MONITORING - PROCESS - WIRELESS TELEMETRY - INTEGRATION

QHi-Systems

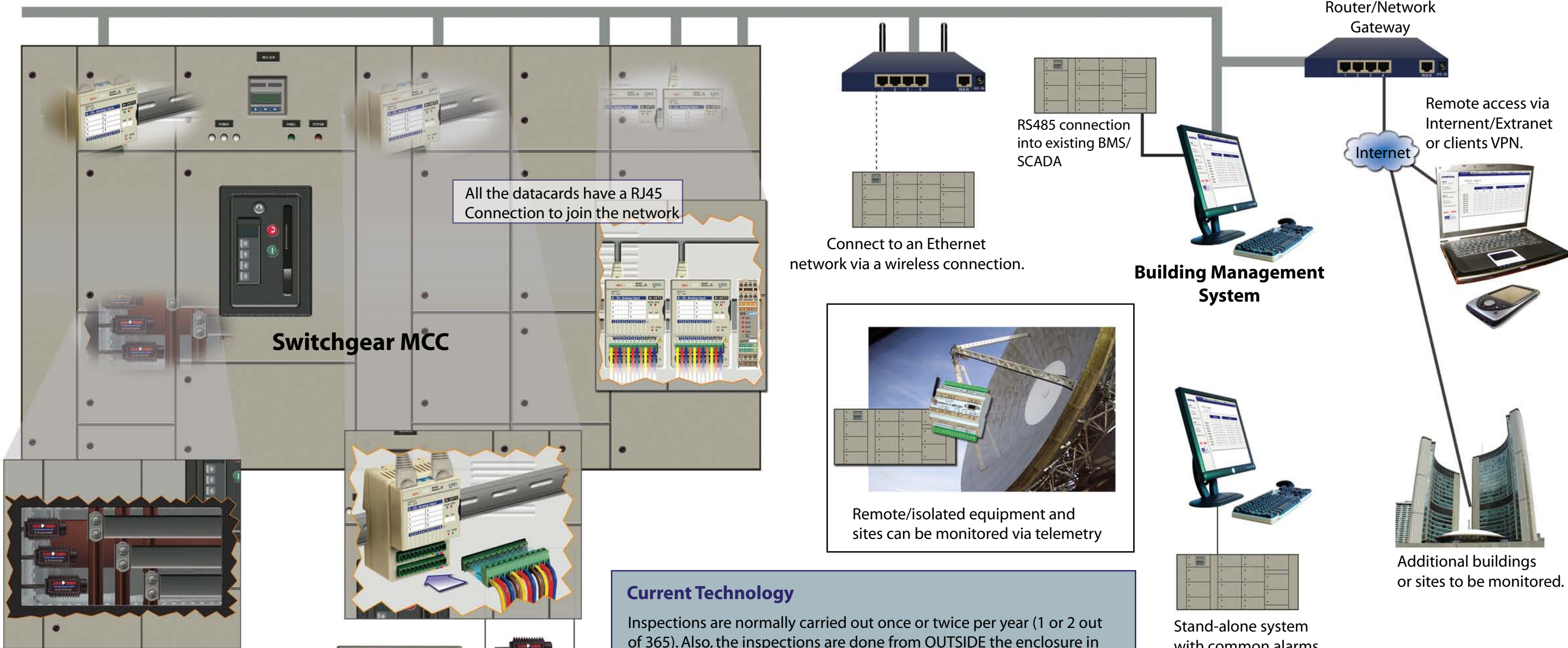
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Exertherm - The Next Technology Step

24/7 Thermal Monitoring - The next step

CAT5/ModBus Network



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.

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.

Each datacard can have 8 X Sensor inputs