

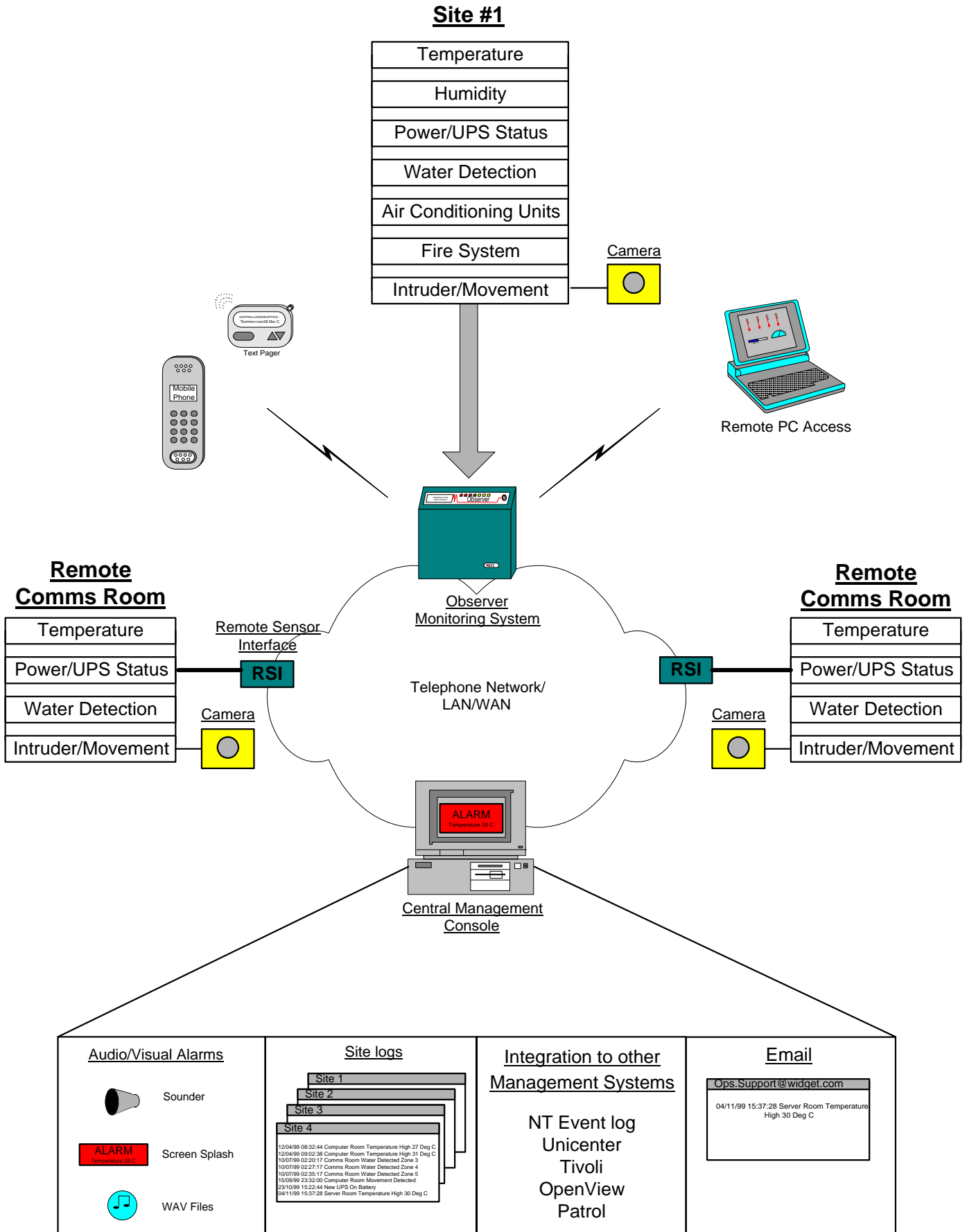
# **Observer**

**Monitoring and Communication System**



## **System Overview**

**Solution Approach**



## **OBSERVER OVERVIEW**

### **Unit Description**

Observer is a wall-mounted hardware device to which are connected various sensors.

Sensors can be:

- ◆ Analogue - Sensors such as Temperature, Humidity, Sound, Mains Voltage & Current etc.
- ◆ Digital - Checks for On/Off conditions from 'switch' closures such as Smoke & Water detection, Air Conditioning Fault, UPS on Battery, Building Alarm Systems, etc.
- ◆ Serial - Receives data from an RS232 type serial port on a computer system, telephone system, UPS, Network Monitoring Software etc.

### **Method of Operation**

When any of the sensors go out of range or a switch contact changes state then Observer sends a descriptive message (eg.: London Centre: Computer Room Temperature High = 35 Deg C) to a specified list of people via SMS Text to Mobile Phone, Central Console, Email or into an existing management system i.e. OpenView, MOM, Unicenter etc.

When Observer receives a serial data message from a computer, telephone system or Network Monitoring Software then the severity is tested against a user provided mask and if warranted, the received message is retransmitted to one of the destinations provided.

Observer is designed to be a 'Nag' - it will keep sending messages at timed intervals to an escalating list of people until someone cures the problem or turns the alarm off.

### **Response to Alarms**

The person receiving the message is then in control and has opportunity to manage the problem.

There are several choices:

- ◆ Connect to the Observer system, using a PC, to verify the problem. Possibly the mains power has failed and by the time you dial-in then all is well again. It may be that the prudent choice is to perform an orderly shut down of systems to prevent damage eg: if the room temperature is high.
- ◆ It may be that a telephone call can fix the problem - alert security to check something or call an Air Conditioning engineer.
- ◆ It may even require someone to attend site - a chore, but if it prevents a major problem then it has to be worth the effort.

## **Observer Features**

- ◆ Each Observer is an independent, autonomous, battery-backed device that generates its own alarms.
- ◆ Observer has multi-path alarm capability — using PSTN (dial-up), mobile network, direct connection or via a network back to one or more Central Management Consoles (CMC) or directly to a pager/mobile phone.
- ◆ Remote access to individual Observer units gives full capability to any authorised user with a PC (or CMC) and Modem — wherever they are, allowing alert investigation, message management and parameter changes to be made remotely out of hours.
- ◆ Observers alert messaging is meaningful and immediate  
(eg: Bowthorpe #1: Computer Room Temperature High = 30 degrees C).  
This type of message will be communicated to the CMC, Email, Mobile Phone etc. in whatever sequence order specified in an escalation list. An alarm can even be generated when the value returns to a user specified normal range.
- ◆ Observer has multiple serial ports available that can be connected to computer systems, telephone systems, UPS, door access controllers and even BMS systems — almost anything with a serial port. This allows messages to be received from those units and also allows direct communication with these units by an authorised Observer user.
- ◆ Observer has (password protected) output control available from any authorised user, thus allowing remote actions to be performed (eg: Lights On/Off, Power up/Down).
- ◆ Observer is a custom-tailored solution for each individual site. We provide standard sensors for temperature, humidity, sound levels, voltage & current and have considerable experience connecting to existing systems and other manufacturers.
- ◆ We concentrate on being specialists in computer/comms room monitoring and integrate with specialist manufacturers who are expert in their own field or already present on site (eg: security systems, door access, building management, existing software etc.).
- ◆ Observers are completely scaleable, enabling it to meet your requirements both now and in the future, without having to predict what your requirements might be in 6, 12 or 18 months time.

## **Observer Remote Access**

At any time, the user can access the Observer unit either directly or remotely to view the current environmental conditions. Real time data is displayed in graphic format and trend data can be displayed as a graph based on data stored in Observers internal datalog.

Figure 1 - Sample Observer Monitor display

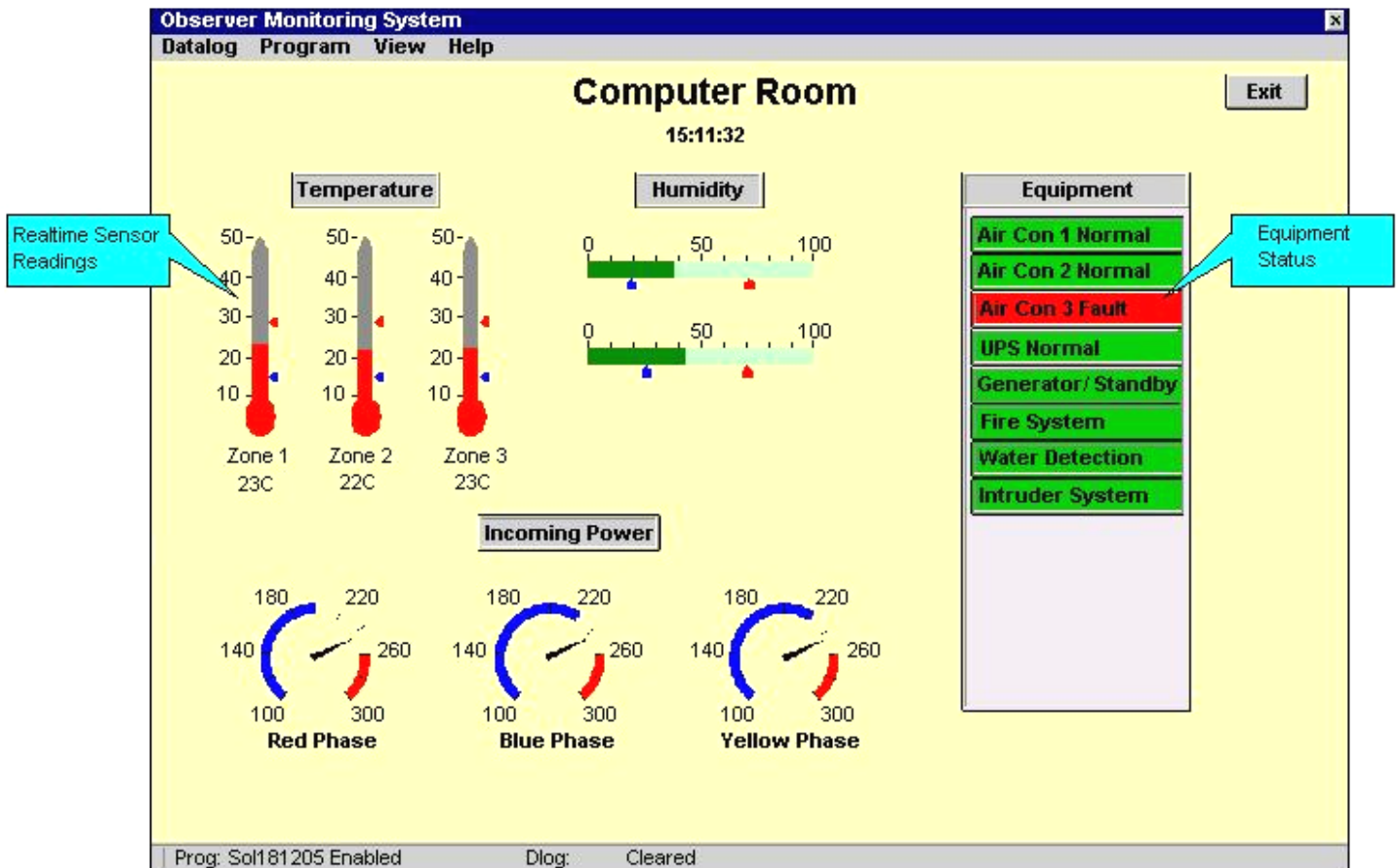


Figure2 - Sample Observer Datalog plot display

