

TOTAL ALARM MANAGEMENT



ALARM ANNUNCIATION

SEQUENTIAL EVENTS RECORDING

CRITICAL EVENTS MONITORING



TECHNOLOGY
TOP 100



O U T L I N E

Corporate Overview



a name
synonymous
with quality

OMNIFLEX has been designing and manufacturing electronic products and systems for the automation and control industry since 1965.

Through our world-wide partner network, we specialise in providing solutions to industry in the fields of Remote I/O, RTU's, Data Acquisition, Alarm and Event Management, and Process Signal Conditioning Systems.

More than three decades of experience in innovating products and systems such as these have resulted in a refined range of solutions for managing abnormal and critical events in industrial processes. These proven solutions are being relied upon every hour of every day by major corporations around the world.

Whether it's four points or four thousand points, there is an OMNIFLEX solution to your need. Hallmarks of these solutions are reliability, flexibility and ease of use, which synergise to become the trusted eyes and ears of many enterprises, peak performing 24 hours a day collecting data, analysing logical circumstances and providing the appropriate warnings to personnel and other systems.

Building on proven technologies, OMNIFLEX continues to research and develop new frontiers to create products that outperform expectations and provide true added value. Recognising that productivity, human safety and profitability depend largely on products such as these, reliability engineering assumes paramount importance to ensure operation under the most arduous and inhospitable conditions.

An investment in products that carry such a large responsibility requires confidence in our track record and the continued expansion of some of the worlds giant industries using OMNIFLEX technologies, is sufficient testimony to this support.

Don't ask us - ask our loyal customer base.

www.omniflex.com

*your link to powerful solutions in
Industrial Information Technology*



The Role of Alarm Annunciation Today



Who will respond to your next critical alarm? How long will it take to identify? What will be the consequence of a delay in response?

In the computerised world of automation, the need for an effective interface between man and process remains quintessential to a safe efficient operation. The complexity of this interface has increased exponentially over the years as processes get more sophisticated and the demands for quality, efficiency, safety and productivity become more intense. Many technologies are exploited to achieve these ends. Computerised alarm lists have revolutionised abnormal event handling on the modern plant, although it has been proven time and again, that when the chips are down, a dedicated alarm display for your critical alarms is an essential tool needed for timeous reaction to modern plant upsets. This reaction time is crucial to plant productivity where down time is revenue lost and speed of response can even mean the difference between life and death.

Whether your plant philosophy is:

- Enhanced Operator Display for quick reaction time,
- Segregated Alarm Annunciator Logic for reduced PLC/DCS overhead,
- Distributed Systems to spread I/O and processing ability,
- Or redundant Systems for backup of critical alarms, OMNIFLEX provides the full spectrum of capability from "off-the-shelf" local Alarm Annunciator Displays to dedicated VDU based alarm lists and high speed sequence-of-event recorders.

It is estimated that billions of dollars a year are lost through inadequate response by operators to abnormal plant situations. The prevention of such instances starts with an effective alarm system design philosophy and the selection of appropriate alarm systems for your factory that meet these requirements.

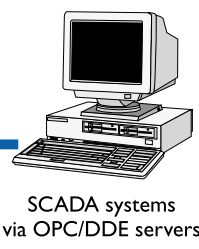
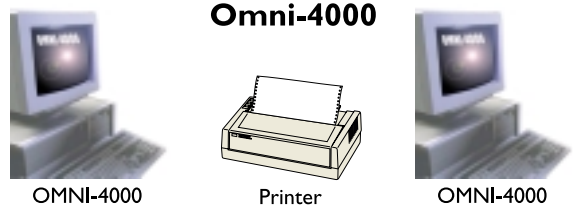
Omniflex Displays, Alarm Annunciators and Event Recorders can be trusted when abnormal situations occur. With SCADA/DCS compatibility they compliment any plant supervisory/control system whilst providing independent local and remote indication and recording that managers, engineers and operators have learnt to trust.

The logic is compelling. Can you sleep easy tonight?



TOTAL ALARM MANAGEMENT

Alarms & Events Management S/W Omni-4000



Windows OPC/DDE
3rd Party OPC Clients

SCADA systems
via OPC/DDE servers

Conet

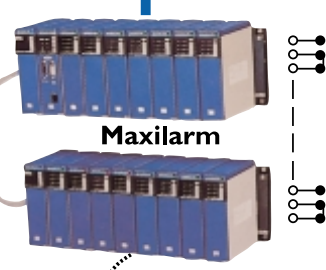
**Conet/e Ethernet
TCP/IP**
Co-ax, Fibre, UTP,
900m 10Mbits/sec

Conet Local Area Network. Twisted Pair up to 10km 62.5kbits/sec



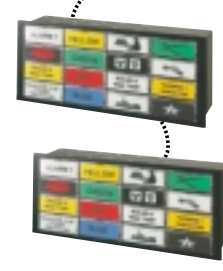
Maxilarm

**Distributed Alarm
Annunciation**
10 milli-second
event
discrimination



Maxilarm

**Local and Remote
Alarm Displays/Push
button stations**



Conet

Conet

Conet



Loop --- Loop

Maxiflex

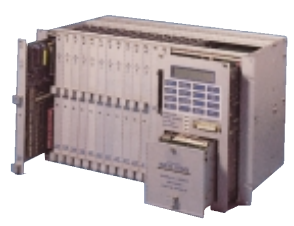
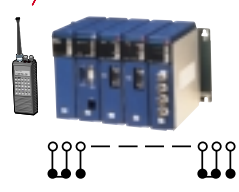


Loop --- Loop

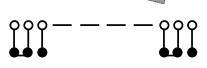
Omniwatch Machine Monitor

Analog Inputs TC/mV/RTD/V/I

Radio Links
Conet/m (multiple nodes)
or Modbus (point to point)
GSM. Interfacing
Paging Systems

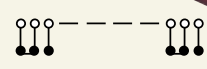


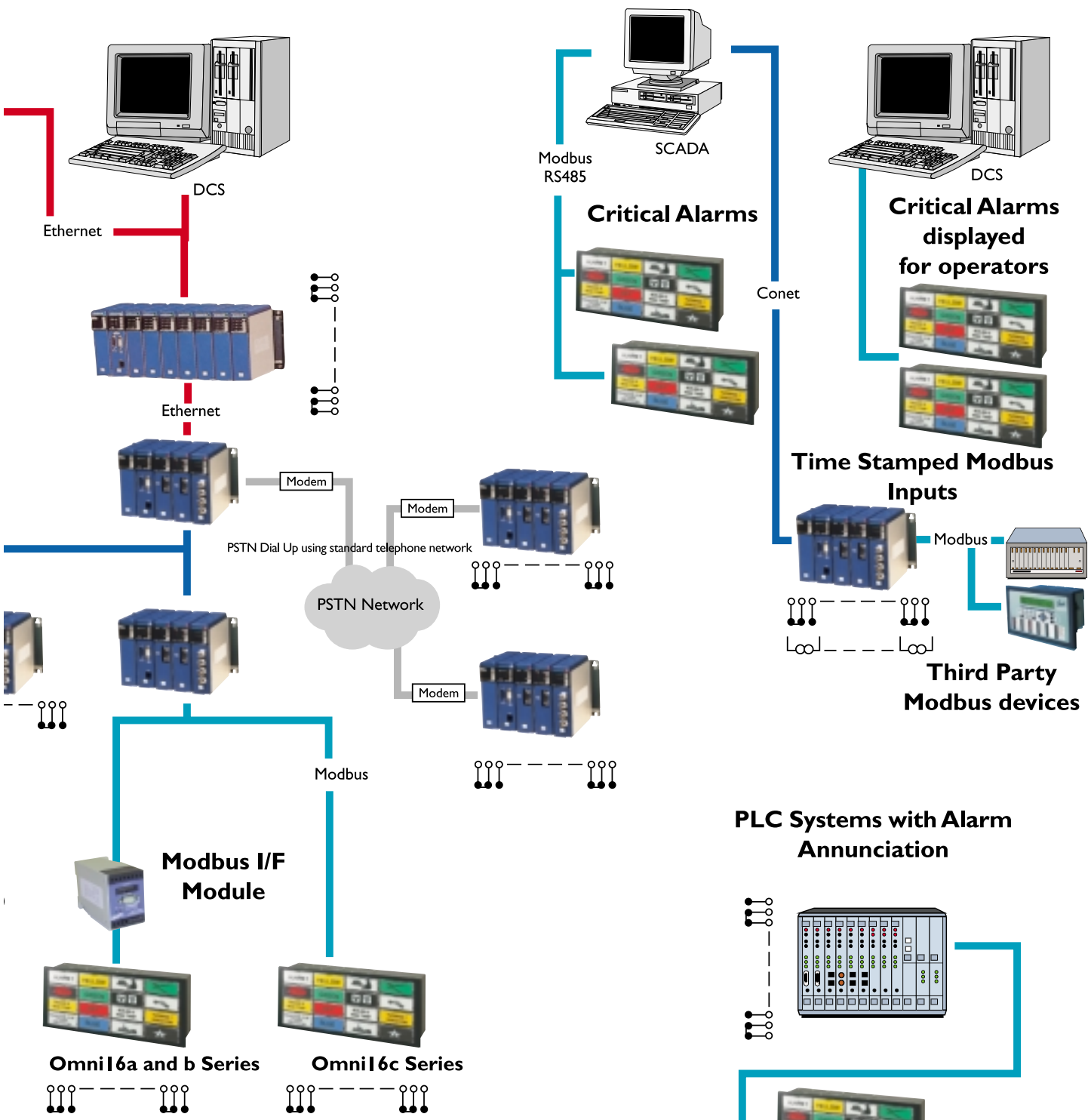
**SER260 Sequential
Events Recorder. Up to
4064 Inputs per system
1 milli second
discrimination**



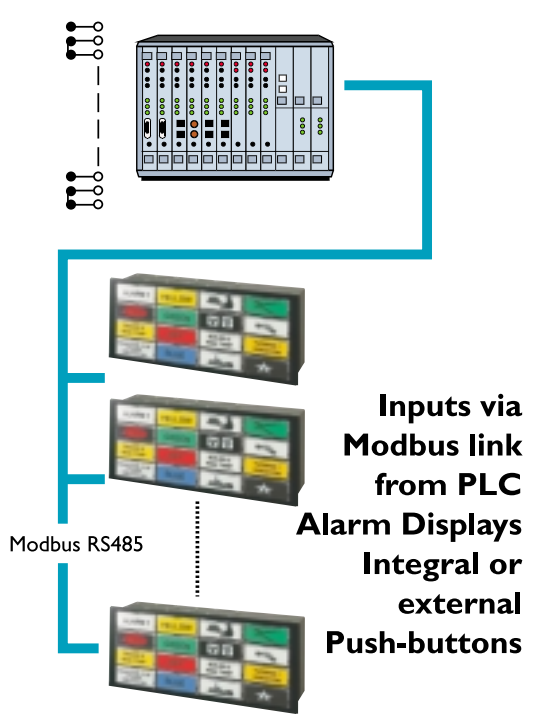
Discrete Alarm

Omnilog Events Recorder





PLC Systems with Alarm Annunciation



Annunciation and Events Recording

Omni 6 / 8 Series Annunciators **Omni8u**

The image shows three types of annunciators: two **Omni 6 / 8 Series Annunciators** and one **Omni8u**. Each device has a terminal block with four terminals.

P R O D U C T L I N E S

Omni 8 – The Smallest Yet!

Ideal for Motor Control Cabinets and space restricted applications - a compact 8 Point annunciator DIN 48x96mm front with all the functionality you'd expect on more expensive units at half the price. With Integral Pushbutton and Audible and a wide range of power supply options. Omni8 micro is the perfect add-in for OEM applications with dedicated Indication or Alarm monitoring.

Omni 8C/I6C - Modular 8 to 256 Point modular expandable annunciator system

Compact expandable system (Building Block Expansion Philosophy) using common services and like optional integral or external push button stations. Omni8/I6C offers "off the shelf" standard annunciators with easy configuration and expansion for any plant requirements. Save on power supplies with Integral PSU options. Omni16 displays utilise the latest technology offering the ultimate reliability of high bright Backlit LED or the Side Bar LED system pioneered by Omniflex. Modbus serial communications makes for seamless integration with PLC/SCADA/DCS.

Omni16C - Serial & Remote Display Technology

Stop re-inventing the wheel! A low cost effective critical alarm display for PLC/SCADA, working in conjunction with your control system/PLC with the benefit of years of process alarm technology in the box to save you engineering hours and improve the quality and efficiency of the control system. Using Modbus serial communications the serial display then takes over all alarm annunciator functions e.g. Alarm Sequences, Pushbutton inputs, group alarms, horns etc. completely freeing the Control system to do control. Give your critical alarms the status and visibility they deserve.

Omnilog - Sequential Events Recorder

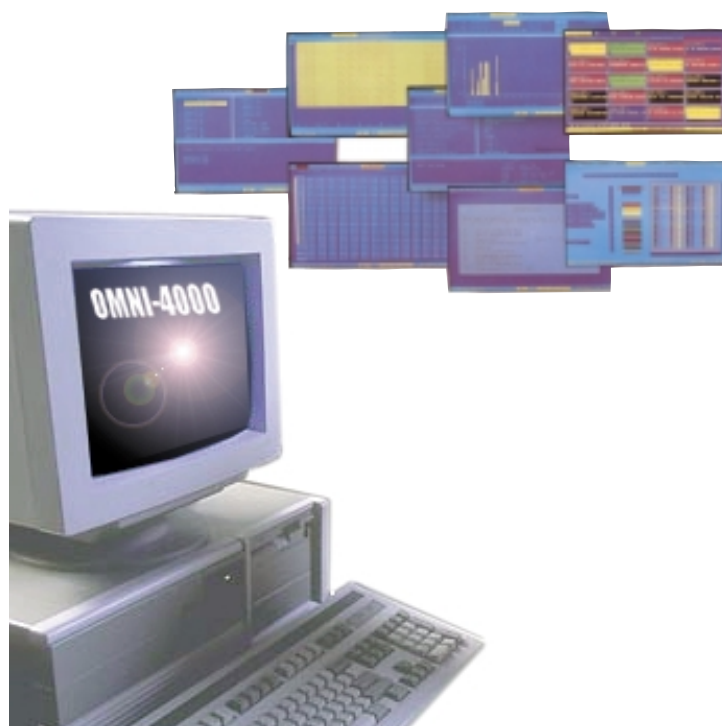
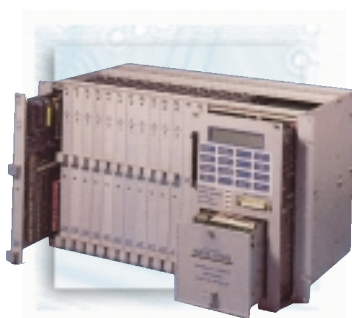
Omnilog is a stand alone events recorder expandable from 32 to 128 Points complimentary to Omni16 systems. Event discrimination of 4milli seconds with its integral 24 column printer capturing events to paper.

Modbus I/O modules

Acquiring status of inputs on existing annunciator systems is simplified using Modbus interface modules. Omni-16 repeat outputs can be wired via ribbon cable directly. Screw terminal module are available for third party products.

Modbus I/O modules are available in both Input and output configuration.





OmniWatch

Pumps, Motors, Fans need protection in the case of component failure and information for predictive/preventive maintenance purposes can reduce failures. OmniWatch logs trip or alarms for maintenance personnel to view on screen. Integrating Process Indication (in Engineering units), Alarm Annunciation, Events Recording, Signal Conditioning, Alarms and Trips OmniWatch provides a unique blend of engineering to the Alarm and Events Management business. OmniWatch is Conet enabled for SCADA/DCS data acquisition.

Maxilarm - Distributed Alarm Annunciation

Maxilarm is a powerful Distributed Alarm Annunciator system with I/O collection points distributed over up to 10km of Cable. Events are time stamped to 10mill second resolution. Configuration is via PC based setup program connected anywhere on the Conet network.

Analog Alarm Integration

Maxiflex allows Analog Modules to be integrated into the system, each analog input having 4 setpoint alarms creating a powerful Alarm Annunciator system without extra signal conditioning. Temperatures (TCs/RTDs) or Voltages and Currents can be integrated directly using specific Maxiflex Modules for this purpose.

SER260 - Sequential Events Recorder

The ultimate "What happened?" diagnostic tool for your plant. Sequence of Events Recording is one of the most important analysis tools for fault diagnosis, to be able to review the data and determine cause and effect of the fault on the system afterwards. However these events are useless if they are not captured in chronological order at source. SER260 provides the means to capture events from thousands of Inputs discriminating to 1milli second across all inputs.

Omni-4000 - Alarm Management System

Omni4000 is a PC Based Alarm & Events Management System accepting inputs from all Conet Fieldbus enabled products and is capable of displaying 4800 points in an Alarm Management format. Event streams from Conet (Time stamped at source) enter the Omni4000 system via the Conet Local Area Network and are stored to Database. Alarm screens display current statuses while event streams can be viewed as alarm lists dynamically as well as historically.

OPC servers/DDE servers

A Windows 98/NT OPC server for Conet Fieldbus, allows the event stream to be processed by any OPC client system. (SCADA/DCS or Database) thus facilitating the use of the most powerful database reporting and analysis tools. The Omniflex philosophy of "Time Stamp at Source" eliminates all Network Latency providing chronologically correct data over the entire distributed system.



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