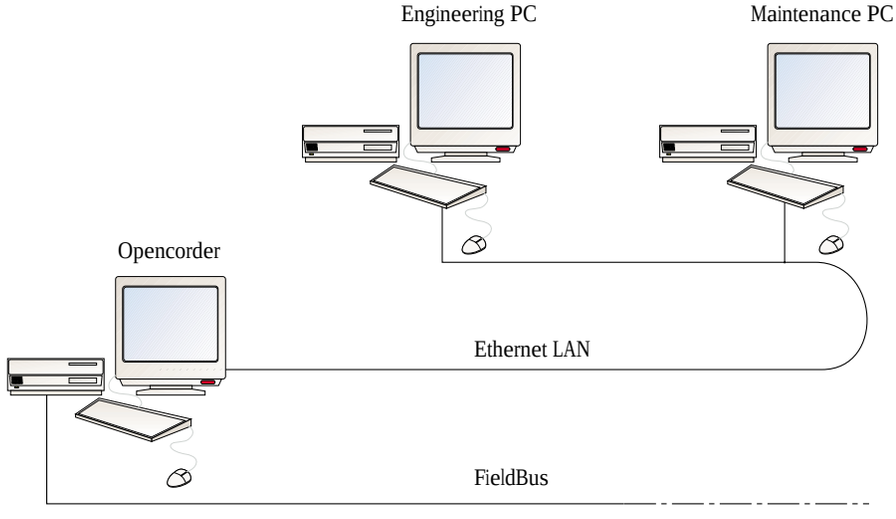
Imagine a recorder that:

- Allows you to retrieve current data on your desktop PC as it happens
- Has all the required historic data available on-line
- Allows you to display data from multiple recording points in one view
- Allows visualisation of multiple plant areas to facilitate comparison and analysis
- Allows SQL queries to the data for further processing using desktop applications
- Allows multiple recorders to be integrated accross the LAN
- Allows simultaneous access to multiple recorders
- Has accurate time stamped information with all recorders synchronised to the same time base
- Allows remote software maintenance and modifications
- Is reliable enough for critical operation in the power generation industry
- Has a user interface that is freely definable and not dependent on hardware configuration
- Has available data limited only by storage space - typically one-year on-line
- Provides easy access to archived and retrieved data, allowing for permanent records
- Allows history to be archived at full resolution
- Can be customised for any specific requirements
- Allows the data to be exported to most Microsoft products

Opencorder for Windows NT™

Your window to your plant, accessible from anywhere on your LAN, using standard desktop applications



The open system architecture allows any data to be retrieved from the system using standard desktop applications. An SQL interface is provided to enable ODBC queries and the **Opencorder** can interface to most SCADA systems. In fact, a communication interface can be provided for almost any system.

The **Opencorder** provides the user with appropriately formatted data to facilitate accurate analysis and informed decision making. With its simple concept and ability to fit neatly into existing systems, the Opencorder can result in significant cost savings for new and old installations.

Technical Configurations

Minimum hardware requirements:

- Intel Pentium 166 or higher processor
- 32 megabytes of RAM
- One hard disk drive with a minimum of 1 gigabyte of free space
- Windows NT4.0 Workstation Operating System
- Analogue input hardware with appropriate software
- SVGA Colour Display Unit
- PS/2 Mouse or Touch Pad

Device input types:

- 0 - 10V
- 0 - 5V
- 0 - 20 mA
- 4 - 20 mA
- J.K Thermocouples
- RTD

Recorder display

Each recorder display has eight trend pens. Up to four recorders can be displayed in each window (full screen). The user can define up to 16 groups, each group having four recorders.

The hardware is configured through tables. Each trend pen is configured according to specific customer requirements. Typically, trend colours change if it has exceeded alarm settings. Colours can include yellow for lo or hi alarm conditions. Red for lolo or hihi alarm conditions.

The ranges of display is set to fixed periods being, 30 minutes, 60 minutes, 4 hours, 8 hours and 24 hours. The range is selectable per view.

Input specification

Each input is configured according to the requirement with the following information:

- Unique signal identification number
- Signal tag
- Signal description
- Input scaling
- Visual scaling
- Limits (Alarm and trip values are defined)

Input devices:

- ISA bus A/D adapter
- Serial communication to Process
- Information systems
- InterBus
- ProfiBus
- Ethernet TC/IP

Temperature:	-10°C to 60 °C
Humidity:	0 to 80% RH, non-condensing
Number of inputs:	32 - 512
Resolution:	Hardware dependent 1/256 to 1/65535
Sample interval:	Hardware dependent
Analogue:	1 second to 3 minutes
Digital:	up to 1mSec

Opencorder storage

The customer determines the storage requirements.
It can be from 24 hours to 10 years.
All data is saved on standard media.
Compression techniques employed ensure that storage space is optimally used, (up to 99% compression).
The data can be transferred to a server or other device for archiving purposes.
Archiving can be permanent dependant on the media used.

Open architecture hardware

Process data can be obtained from any system
Where only 32 signals are required, a PC I/O card is used
Larger installations require Fieldbus technology such as InterBus or ProfiBus allowing for ease of configuration and expansion.
This is ideal for new installations, as it has no centralised wiring.
It is also easily integrated into existing systems with centralised wiring.
Interfaces to most installed systems are available.

Functionality

The following functionality is available to the user:

- ***Duration change:*** The user can change the displayed information from 30 minutes to 24 hours per window
- ***Retrieve history:*** The user can retrieve any of the available history directly on screen for any of the windows.
- ***Zoom:*** The user can zoom into any area on the window to retrieve higher resolution information.
- ***Resize:*** The user can resize the windows.
- ***Legend:*** The legend can be hidden to enlarge the graphical area.
- ***View:*** Differential views can be selected.

The simplicity of the operation ensures that the operations staff become familiar with the system quickly with no special training required.
The operating system is password protected.

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