Real Time Monitoring for the Laboratory

MicroScan Version 5

- Incubators
- Fridges
- Freezers
- Water baths
- Coolrooms
- Sterilizers
- Blood banks
- Ovens
- Others

- Online recording
- Traceability to ISO9000
- Promotes client confidence
- Prevents loss of product
- History records
- Eliminates manual temperature checking
- Peace of mind
- Ensures correct test results
- Share with other PCs

MicroScan is a complete Windows based **S**upervisory **C**ontrol **a**nd **D**ata **A**cquisition software product, meeting the demands of both the industrial and research environments.

By customer acclaim, MicroScan is the price-performance leader for SCADA packages. Operating on the most popular multi-tasking platform ensures flexibility and conformity to industry standards to serve your current needs, while being ready to expand when you are.

Developed around a multi-tasking modular concept you can choose the exact system to meet your needs, then add new modules as your process grows.

MicroScan is known to be the best feature packed 'Recorder' module for gathering valuable data, while the powerful Mimic module provides screens (MMI's) which give the operator direct plant control.

Continuous development places MicroScan in the leading position as a benchmark upon which other packages are measured.

MicroScan opens a whole new world of power and innovation previously unavailable to industrial users. Like a window into your plant, MicroScan is a proven money saver and money earner, as all the plant problems are discovered and solved, which greatly increases your efficiency.

Before

Intech INSTRUMENTS LTD

After

Recorder

The recorder module is a vital component to any SCADA system as it represents the data acquisition component.

The visual displays can switch between the data (spreadsheet) format and the line (trend graph) format to group and display information instantaneously and historically with on-screen viewing as far back as you want to go.

The features include comprehensive alarming, totalizing, printouts, report generation and an operator notepad with time and date stamping. The recorder also supports linking to other software modules to further extend the reporting and control capabilities.

Trend screen
- Multicoloured display for analogue and digital
- Track display gives pointed values
- Adjustable graph scale and time base
- Zoom support.
- High speed logging.
- Automatic logs and graphs.

History screen
- Searching for historical data made easy.
- Export to word processor or spreadsheet.
- Easy slow playback.

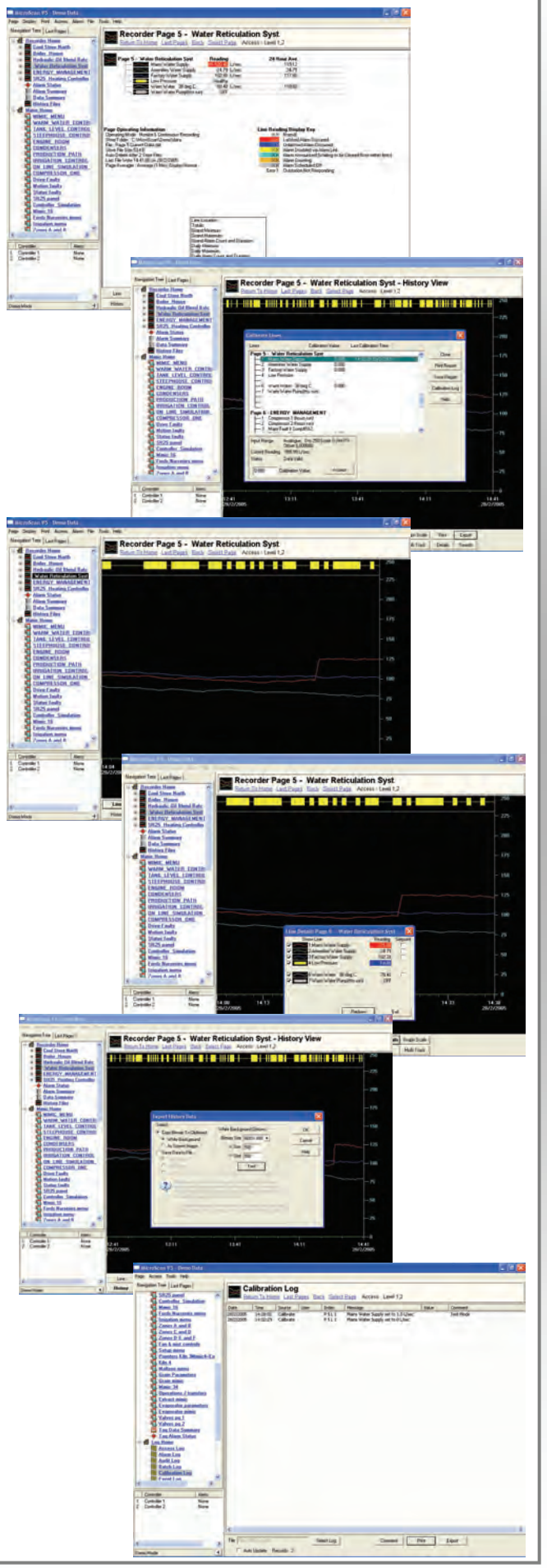
Data screen
- Data screen configurable fonts.
- Easy to read real time data.
- Colour highlighting of alarms.
- Historical replay support.

Data screen calibration
- On-line calibration and ISO tracking support.
- Configurable screen area for
- Daily and grand totalisers
- Daily and grand minimum and maximum values.
- 24 hour average
- Alarms count and duration times

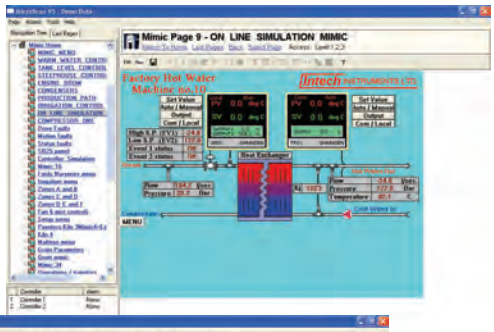
Function keys
- Configurable screen formats.
- Toolbar support,
- Multi level access.
- Help screens and function key support.

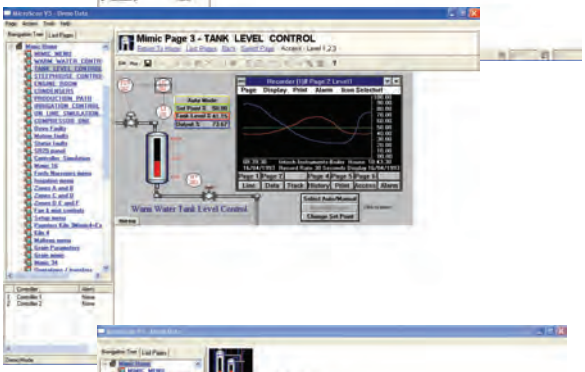
Alarm screen
- Alarm status window.
- Configurable to automatically appear on alarm.
- Alarms filed to disk or event log.
- Full annunciation support.
- Configurable automatic alarm printing.
- Easy access to alarm set points after access obtained.

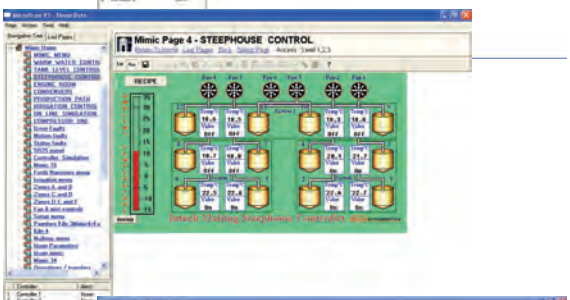
Printing features
- Automatic and manual log and graph printouts.
- Automatic alarm logs of batch printing.
- Comment printing and setup printout.

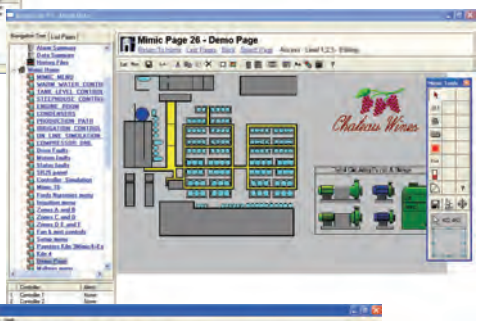


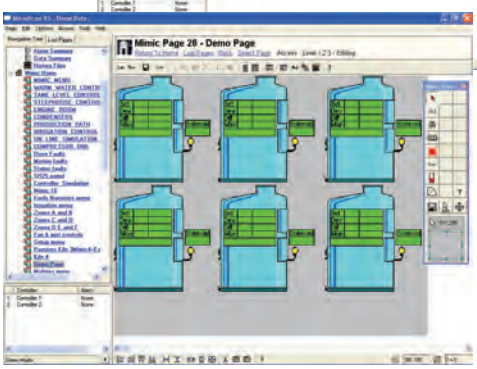
Mimic











The Mimic module is the software equivalent to a hard-wired control panel offering comprehensive operator interfacing to your process control requirements.

The Mimic has 50 screens, each of which can be set up as a pictorial depiction of a section of the factory, to display objects showing process variables and the operating status of the plant equipment. Now we add command buttons and switches to control set points and operate your equipment.

You can start to see the potential of the Mimic Package when communicating to PLC's with screen update times configurable up to half a second (now that is fast!). This must be the most effective way to interface and control your process.

When you add all this to the Recipe features and DDE support, this makes for total process control at your fingertips.

Mimic Screens (MMI)

- Easy to configure.
- Easy to use.
- User definable layout drawing using Windows, Paint, CAD etc.
- Data can be inserted on screen where required.
- Display interacts with mouse commands.
- Buttons and hotspots drive outputs automatically.

Mimic features

- Static and flashing alarm windows.
- Configurable page menu or index.
- Page directories to focus on process areas.
- Interactive displays include
  - Digital displays
  - Bar graphs– vertical and horizontal
  - Tank colour filling to show level
  - Control panels
  - Colour change on alarm

Flexibility

- Design and application of Mimics in only limited by the imagination.

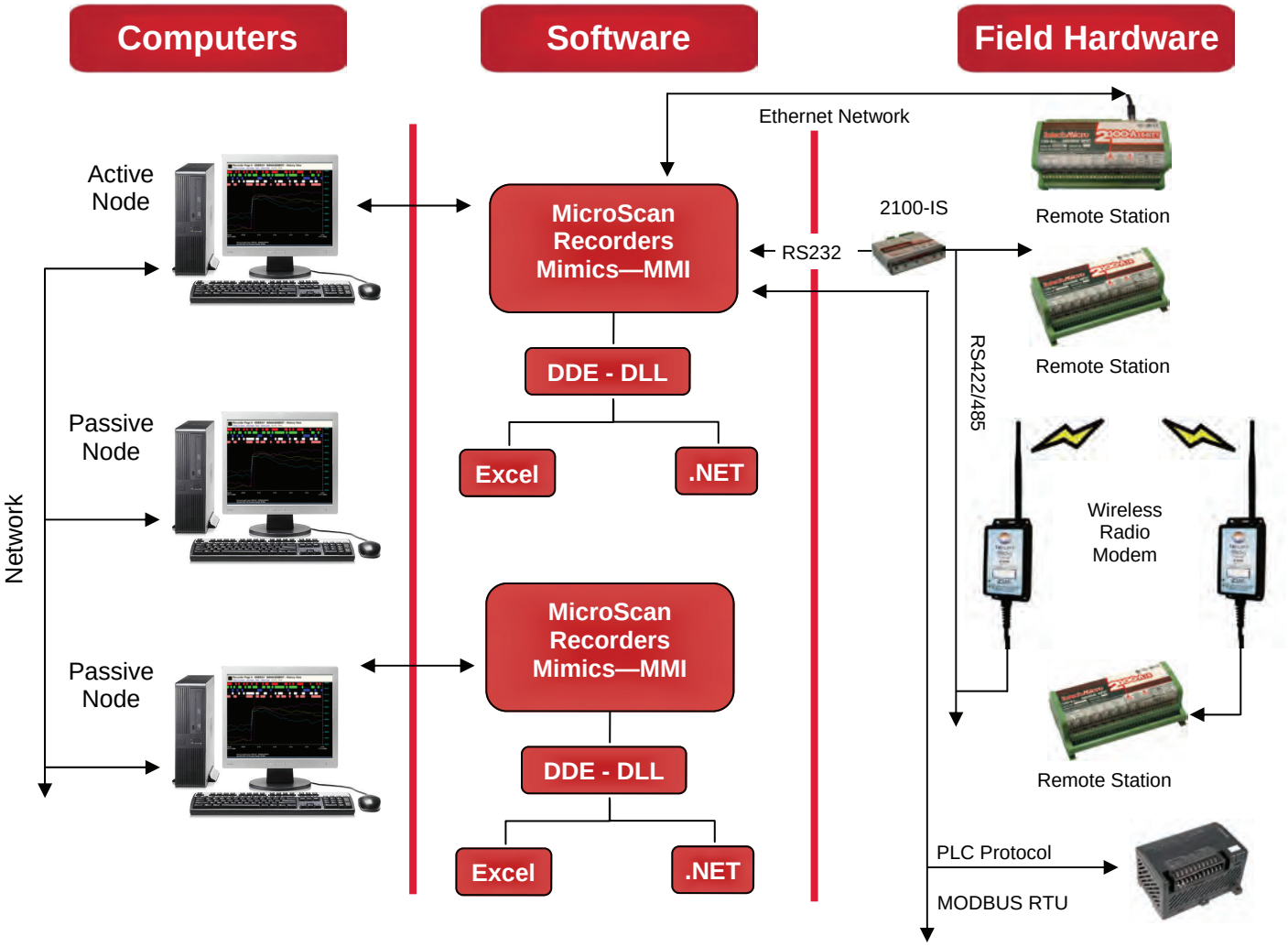
PLC support

- Strong PLC support made easy.
- Software interfaces available for most popular PLC's.

Controller support

- Strong field controller support.
- Full controller support of both auto tuning PID and intelligent ramp controllers.
- Controllers configured from screen.
- Complete pattern programming and saving to disk.
- All controller variables available for trending.
- Built-in on/off controllers

MicroScan



Networking

The sharing of the data between the active and passive computer nodes running MicroScan is supported on both the file server styled network, and the Windows multiple independent server network.

For sites with more than one active computer node, data can be shared between active computer nodes. Also passive computer nodes have access to data from any active computer node.

Passive computer nodes can be run continuously or simply started when required to provide the latest run time data or view historical information.

Security is provided to regulate the sharing of data.

DDE - Dynamic Data Exchange

The MicroScan supports Dynamic Data Exchange (DDE) and Dynamic Link Library (DLL). These features add to the scope of your process monitoring needs and is the ideal development for truly innovative management solutions.

Connecting to Field Devices

MicroScan supports connection to many different field stations including:

Intech family of Remote Stations - Allowing fast and economical project implementation, plus easy expansion.

Some PLC's - Allowing connection to industrial processes for monitoring and setting of PLC parameters.

MODBUS RTU devices - This popular protocol allows connection to a large variety of field devices.

Connection options:
Flexibility with connecting the MicroScan PC to Intech Remote Stations allows for easy and economical solutions.
Three options are available as standard:

1. Connecting via the computer RS232 port.
2. Connecting via a wireless radio modem link.
3. Connecting via a LAN (local area network), or WAN (wide area network).

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