Procter & Chester Measurements

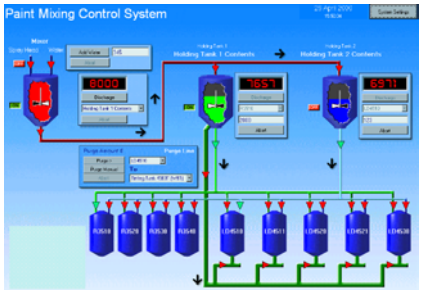
VisualLink SCADA Package

VisualLINK
The RAD toolkit for SCADA / HMI applications

Introduction

VisualLink is a Rapid Application Development toolkit for the creation of SCADA / HMI (Supervisory Control and Data Acquisition / Human Machine Interface) applications supporting a wide range of instrument protocols. The Mantracourt range of intelligent instrumentation is supported along with a selection of common 3rd party instruments. Generic drivers enable you to connect to unsupported instruments.

We also offer a service to add drivers for other instruments. The advantage of this is that it is much easier to select the parameters and readings you wish to interact with as opposed to using the low level generic drivers. The library of drivers will be added to continually and updates will be available via our web site and on request.



VisualLink can create a wide range of application styles. The use of graphical objects and animations ensures that graphically rich pages can be created with ease. Either draw your own graphics and import them or use the built in library of objects, images and animations.

Supported Instruments

- Excitation
- Adjustable Offset & Gain
- Analogue Output
- **ADP15** - Process control instrument, panel mounted
- **RUA15** - Process control instrument, rack mounted
- **ADP-SP16** - 16 Set point process control instrument, panel mounted
- **ADW-SP16** - 16 Set point weighing control instrument, panel mounted
- **LCA15** - Weighing control instrument, surface mounted
- **ADW-FFW** - Fast fill by weight
- **BW5/12** - Batch Weigher
- **DCell** (MANTRABUS2) - In-sensor digital signal conditioner
- **8255 PC I/O Card** (FPC-024) - Low cost 48 channel digital IO card
- **ADPDI** - Process control instrument, dual input, panel mounted
- **ADPTLQ** - Totalizer quadrature input instrument, panel mounted
- **UAB15** - Process control instrument, surface mounted
- **ADP TLQ** - Quadrature totaliser
- **ADW15** - Weighing control instrument, panel mounted
- **RCA15** - Weighing control instrument, rack mounted
- **ADW FPT** - Fast peak / trough ADW
- **ADL20** - MANTRACOURT Analogue Data
- **DCell** (MANTRABUS1) - In-sensor digital signal conditioner
- **DCell** (MANTRA ASCII2) - In-sensor digital signal conditioner
- **DSC** digital load cell conditioner in card format.
- **12 bit PC A/D Card** (FPC-010) - low cost 12 bit A/D card
- **SMW HR** - Weighing control instrument, dual input, surface mounted
- **Arcom** digital IO cards
- **Arcom** A/D cards

Generic support for:

- **Serial Port** - Any serial port connected instrument
- **MANTRAASCII2** - Any MANTRACOURT MANTRA ASCII2 instrument
- **Hardware Port** - Any PC boards
- **MANTRABUS1** (Fast Format) - Any MANTRACOURT MANTRABUS1 instrument
- **TCP/UDP** – Any TCP or UDP instrument or other software on Ethernet network.
- **MANTRABUS2** - Any MANTRACOURT MANTRABUS2 instrument
- **MODBUS RTU** - Any MODBUS instrument. PLCs etc
- **Eagle Technology Boards** - A large range of A/D, D/A and digital IO PC boards. (Available from Amplicon LiveLine)
- **OPC** – Connect to any OPC compliant server.

There are a wide range of object tools including:

- **Database** - for database manipulation down to field level
- **File** - file manipulation
- **Reporting** - records can be written to databases, spreadsheets etc. Text reports can now consist of formatted text and images
- **Dialog** - for using a wide range of dialog and message boxes such as password entry
- **Line/Pipe** - a connecting line with colour changes based on expressions
- **Transparent Vessel** - to mimic vessels with user definable transparent areas
- **List** - Add and remove items from a list and react to mouse clicks
- **Batch Tool** - helps construct batching systems
- **Chart** - new chart object stores more than the visible data. This can be scrolled and zoomed to view required history data.
- **Network Links** to enable Client/Server application construction across TCP/IP networks and dial-up connections
- **Thin Client Monitoring** of remote site using web browser over Internet or Intranet. Note that this is true thin client with no other software necessary than the browser
- **Image server** - ability to write an image file of the window to hard disk for inclusion into other applications or web pages etc.
- **DDE and Net DDE connectors** for interfacing with other applications
- **User Object Library** - you can now group together objects and save them into a library. These can then be reused in future applications i.e.save an object that gets a password and if correct switches to another page
- **User Programs** - you can save and load any properties from the objects or instruments. This gives a very flexible method of creating programtypes such as instrument parameter settings or recipes for batching
- **Runtime Setup Kit** to install your design onto other computers without the ability to edit
- **Rate of Change** tool to calculate acceleration, deceleration, loss in weight and more.

Also included are:

- Display objects with averaging, peak/trough capture etc.
- Read/write objects provide a simple way to interact both ways with instrument properties
- Image and picture objects to display dynamic images for valves, pumps or any other Boolean states
- Scales to place against other graphics
- Flood bars
- Boolean checkboxes that can be directly linked to properties
- Crystal Report linking to offer real time reporting of database information
- Sound generation based on WAV files
- Grid object with updateable cells and user click events.
- Sliders and textboxes can be directly linked to instrument and object properties

Certain objects will trigger events to which you can add program code for extra power and flexibility. The programming language is VB Script (a subset of VBA). This will offer an easy to use, standard programming language to enable you to produce very powerful applications with a minimum of effort. MS Visual BASIC users or even MS Word & Excel macro writers will feel at home using this product.

A script builder will ease script construction by allowing you to select object and property definitions from tree lists.
This package could be thought of as Visual Basic for instrumentation.

The main advantage of this application over other SCADA packages is ease of use with a fast learning curve and rapid application development. You will notice that there are no banks of confusing menus and most operations can be completed by dragging & dropping or pointing & clicking. This even extends to building the scripting code.

VisualLink is 32 bit only software for Windows 98/ME/NT4/2000/XP and is shipped on CD only.

Minimum hardware recommendation:

Pentium 133
64 Mb RAM
CD ROM Drive
35Mb (Disk Space required)
Mouse or equivalent pointing device

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