Create • Convert • Grow

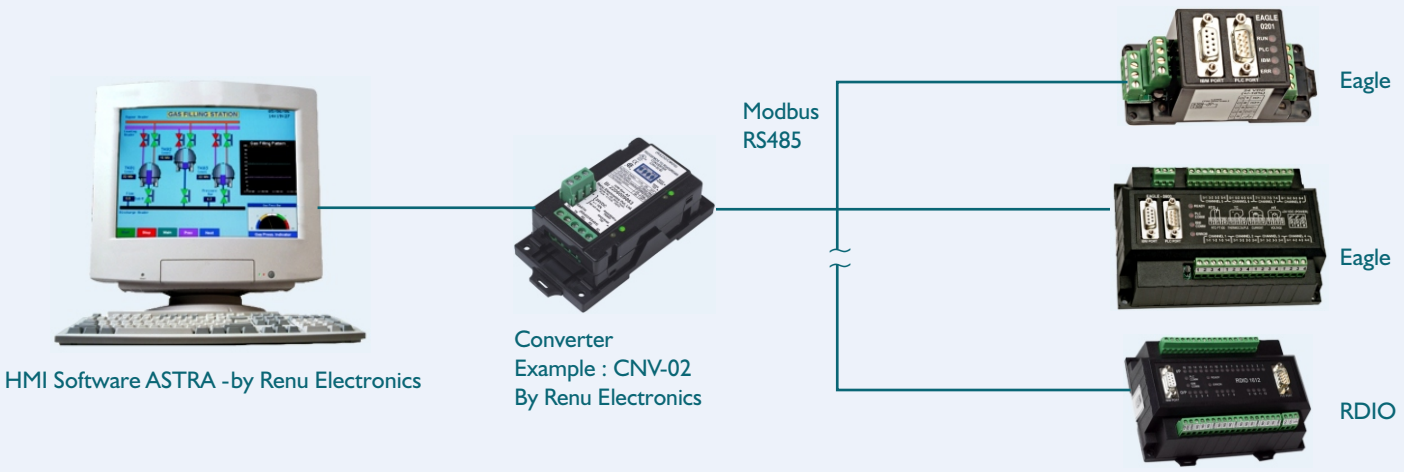
Features :

- Powerful SCRIPT
- Recipe Management
- 256 Levels of Security
- Alarms and Reports Management
- Variety of Graphics and Animations
- Extensive Data and Event Logging
- Real Time and Historical Trending
- Wizards for Screen Development
- Communication: One to one, Multi-Drop, Modem, Ethernet, TCP/IP
- Extensive Tags and Database Management
- Connectivity to EXCEL via DDE
- HTTP Web Server
- Excel Report Generator
- Script Based Report
- Advanced Component Library
- Open Data Based Connectivity (ODBC)
- OLE for Process Control (OPC Client)
- Software and Hardware Lock Support

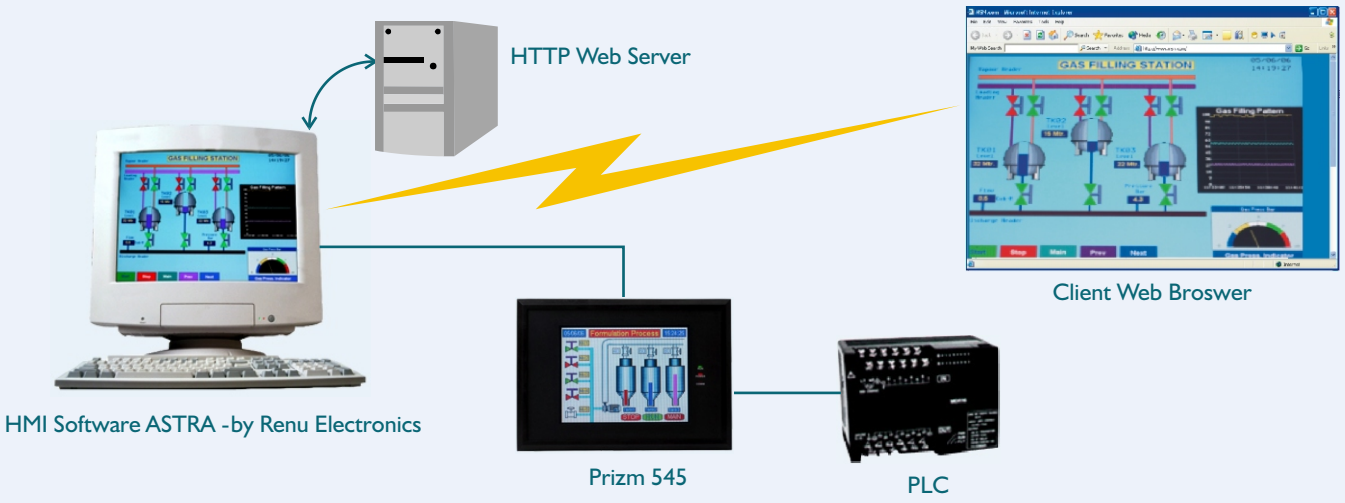
Possible Applications

Our customers have used ASTRA in SCADA applications across many industries.
Typical configuration includes the following:

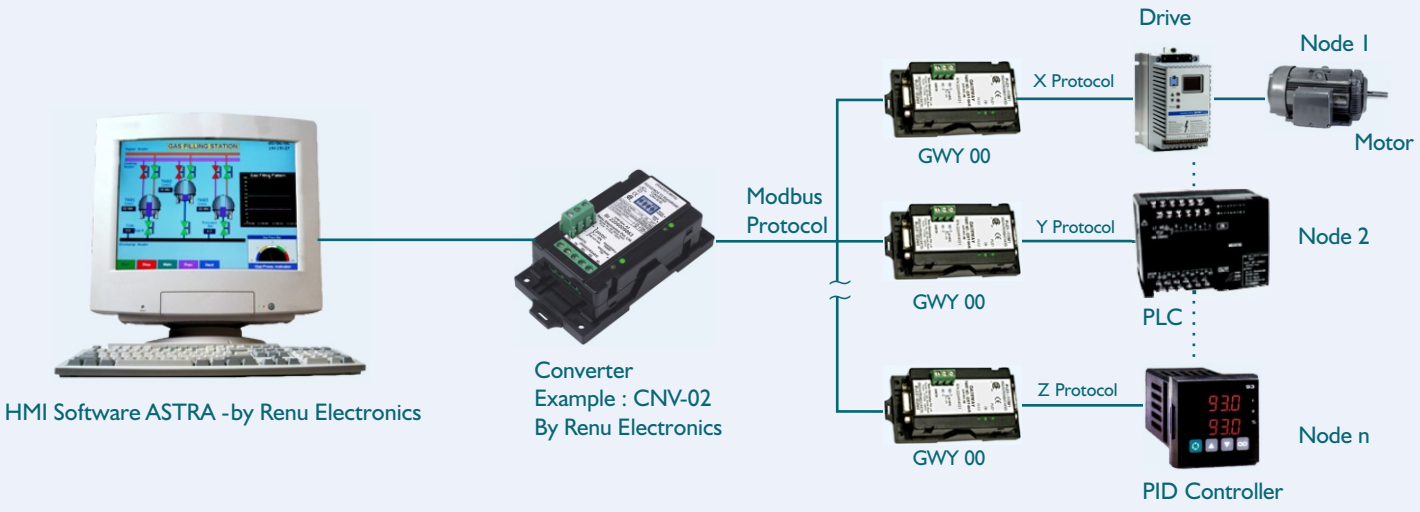
1. Data Acquisition Application for Furnace Automation



2. Connect PLC and Operator Panel to ASTRA with Remote Monitoring through web server



3. Connect PLC / Inverter / Controller to ASTRA



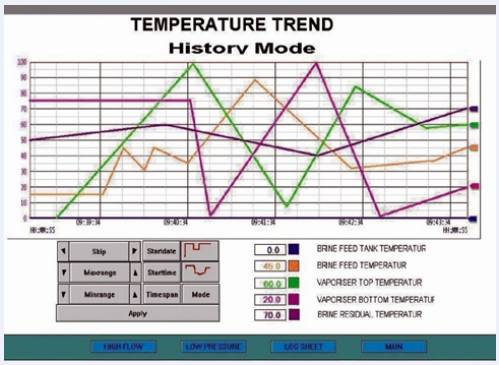
* Images not to scale.

ASTRA Features

ASTRA, HMI / SCADA Software helps you to explore the power and performance of Windows 9X / 2000 / XP. It leads you in to the future of industrial automation with the power of 32 bit processing with pre-emptive multitasking, multi-threading and more. 'ASTRA' a true 32 bit SCADA software developed as per Microsoft Windows 32 specifications

Real Time and Historical Trending:

Collect, store and display real time process data using ASTRA historical trends. One can use this archived data for records, documentation, reporting and analytical purpose.



Alarm Management:

Monitor the system parameters constantly through ASTRA 'alarm management' and alert the user about critical problems either by email, or playing a sound file. Alarms can be individual or group with built-in security and are stored with date and time, stamping in a chronological order of their appearance.

Security:

Configure security levels (up to 256) to control and maintain the data access. One can precisely control all access to data control and system applications.

OLE for Process Control (OPC Client) :

An OPC client application communicates to an OPC server through the specified custom and automation interfaces. OLE for Process Control (OPC) is designed to allow client applications access to plant floor data in a consistent manner With OPC, System integration in a heterogeneous computing environment will become simple. The COM/DCOM technologies provided the frame work for software products.

Scalable, Compatible and Open:

Expand your ASTRA into multi-node, plant wide SCADA by simply adding the PC to your network. One can also upgrade ASTRA for the features, number of tags or for wider connectivity.

Client / Server Architecture:

Configure your ASTRA as a stand-alone or network application. One can configure ASTRA in Client Server architecture and share the data instantly across the enterprise for faster better informed business decisions.

HTTP Web Server:

The ASTRA comes with web server, where HTML pages can be configured for viewing real time data from remote locations through any Internet browser.

Excel Report Generator:

ASTRA provides user friendly way to generate customized reports in Excel format. It is easy to save / view / print some specific reports directly using templates.
The reports can also be generated after specific span of time or an event has been occur in Word, Excel or Text format using powerful scripts.

Advanced Component Library:

ASTRA has wide range of components to design Mimics and screens to create applications quickly and easily.

Recipe Builder:

Create, edit, modify, and download the batch and setup parameters instantly to apply them to plant equipment. Recipes are simple text files, which can be created within ASTRA or using any text editor.

ASTRA Functionality

Easy to Develop

A Window Concept:

Develop the application quickly and easily within our Windows® environment. One can develop simple to complex screens with easy to use animations and add other objects like Trends, Library, Alarms, Recipes Etc.

Configurable Tool Box:

Build screens with a ready to use, yet configurable toolbox. Customize or add more tools to your toolbox, so that the development tools are just a mouse click away.

Object Oriented Components:

Design impressive screens by using our object-oriented toolbox and components. One can use objects from existing library or add to library by creating new components.

Choice of Animation:

Choose from variety of animation options available within ASTRA. One can design the dynamic screens by selecting options like color, object scaling, rotate, hide, show value, move, stretch, slide and more at the click of mouse.

Command Language Script:

Create sequences of commands, using ASTRA's powerful tool, SCRIPT EDITOR tool. A Script can be fired on an event, data change, time based or on windows events.

Open to Connect

High Performance I/O Device Drivers:

Choose an I/O driver from ASTRA driver library to connect them to various field devices. ASTRA I/O drivers are industry standard, with features like communication diagnostics, failure detection and recovery, frame snap shot and more.

DDE Connectivity:

Use DDE / Net DDE for simple device communication, to exchange the process data between ASTRA and any DDE compliant application.

ASTRA Functionality

Relation Database Support:

Share data with other databases like Oracle, Access and more. ASTRA provides open database connectivity (ODBC) to provide two way communication between ASTRA and relational database.

Friendly to Use

Object Oriented Graphics:

Build impressive screens using ASTRA 'object oriented' graphic user interface (GUI). One can use existing components or create new objects, using drawing tools and wide color selection. Objects can scale, fill, rotate, change color and move, based upon the process variables.

Powerful Reporting in ASTRA and via EXCEL:

Generate accurate customized reports for records and various management agencies. One can share the process data through ASTRA DDE interface with EXCEL or any DDE compliant application.

Hardware Requirements: (Recommended)

Intel Pentium PIV Processor 1 Ghz.
256 MB RAM
200 MB Free Hard Disk Space
MS VGA Color Monitor
Mouse
Suitable Keyboard
52 X CD ROM Drive
Parallel Port, USB Port or Hard Drive for Licence key
Operating System (Win 2000 / XP / NT}

ASTRA Sample Screen

PLCs Supported

ADAM Advantech Modules
Ajay Syscon
Allen Bradley
Baldor
Delta DVP Series
DirectNet
Dynalog Add on Cards
GE Fanuc SNPX
Genie Scanner - Lectrotek
IDEC
IMO K & G Series (LG)
Intelsys
Keyence Series PLCs
KOYO
Matsushita
Messung XMP 8 series
Messung NexGen 2000/4000/5000 series
Mitsubishi
Modbus ASCII
Modbus RTU
Moore Controllers
NetDDE
ODBC
OMRON
Powertrak Energy meter
RKC Instruments
Siemens S 135 U
Siemens S 5 / S7-200
Telemecanique
Toshiba
VFM 5090
YOKOGAWA

Market Segments

- Automobile
- Breweries
- Cement
- Chemical
- Environment Control
- Food Processing
- Furnace Automation
- HVAC
- Machine Tool
- Material Handling
- Moulding Machines
- Packaging Machines
- Paper and Pulp
- Pharmaceuticals
- Pollution Control
- Power Management
- Printing
- Steel
- Water and Waste Water
- Weighing Application

New PLC drivers are constantly added. Please contact factory for more information. We welcome an opportunity to develop new, custom drivers and customized units.

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