Instrument Interface Module
MES BUILT ON IGNITION®

Seamlessly communicate with Instrument devices. The Sepasoft™ Instrument Interface Module allows you to capture raw textual data from instrument type devices via serial, text files, OPC devices, and more, enabling you to parse out meaningful values that can be saved to databases or passed along to other systems.

The Instrument Interface Module provides a seamless solution for eliminating hundreds of lines of code and extracting only the meaningful values from devices connected to your SCADA system.

Unparalleled Collaboration
The Instrument Interface Module can be used as a standalone module; it also collaborates seamlessly with all other modules.

Instrument Interface Module Features:
- Serial Communications
- File Monitoring
- Parsing
- Centralized Instrument Management

Serial Communications
Use Sepasoft™ MES to talk to serial devices. The Sepasoft™ Instrument Interface Module is perfect for serial devices including analyzers, measurement gauges, barcode readers, and many more—where values are sent when the operator presses the send button or a request is sent to the device to read the values.

The serial support built into the Instrument Interface Module includes polling the device for new data, receiving unsolicited data from the device, or requesting the new data from the device based on any event.

It gracefully handles timeouts and other communication issues that are commonly associated with serial communications and also includes the flexibility of controlling every byte sent or received using script.

Parsing boxes define the values to be extracted from a serial device and are converted to numeric values. Each parsing box finds the label configured for it, extracts, and converts the value associated with the label.
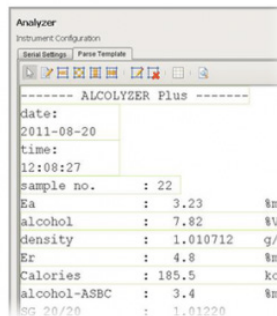
Features
Master Recipe Functionality
Recipe Editor
Variance Log
Role-Based Security
Recipe Change Log
Analysis and Reports
OEE and SPC Integration

Supported Operating Systems
Windows Server 2008/2012/2016
Windows 7, 8, 10, or later
Ubuntu Linux 12.04 or later
Other Java SE enabled OSes2[3]

Requirements
Ignition® Core Modules
Java SE 8+ (server)
Java SE 6, 7, 8, or 9 (client)
Quad-core processor (32- or 64-bit)
8GB RAM
10GB free HD space
(requirements vary by usage)

Supported Databases
Microsoft® SQL Server
MySQL
Oracle
Postgres

*Ignition® is compatible with any Java-enabled operating system. Full support is only offered for listed operating systems.

An example of the module's columnar-based CSV parse template that extracts date, time, sample number, temperature and humidity values and makes them available to be accessed in Ignition®.

File Monitoring

Some instruments only support passing data through the use of a file; the Instrument Interface Module makes this process easy.

You can also read values from external software programs that only support passing data through the use of files. The format of the data can vary from a reports format, CSV (comma separated values) or even a mixture of the two.

Parsing: A Powerful Built in Parsing Tool

At the core of the Instrument Interface Module is a powerful parsing engine. Beyond processing raw data from serial or text files, any textual data that can be read into either the client or server can be parsed into meaningful values. This opens up the door to collect data from a variety of sources in the most straightforward manner.

An example could be reading temperature and humidity from a device that exposes readings on a simple HTML web page. By using scripts, the HTML content can be read and then the temperature and humidity values can be extracted and converted to numeric values using the parsing engine.

The module includes parsing templates that contain textual data with parsing boxes defining the values to be extracted and converted to numeric, date or boolean values.

Other types of parsing boxes allow extracting values at fixed locations, processing CSV columnar data and processing CSV row-based data. A parse template can contain a mixture of any number of the different types of parsing boxes.

Centralized Instrument Management: Manage all of your Instruments in one Place

Since companies have many instruments of similar types, a central location to configure them will reduce the effort to reuse and maintain them.

A configuration can be copied or modified to reduce the time required to set up communications with your unique device.
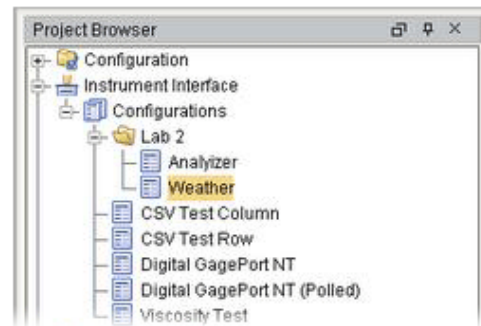
The project browser in the Ignition® Designer manages all instrument configurations in one central location, facilitating easy set up and maintenance.

The Instrument Interface Module is available for download at the Inductive Automation Website: *inductiveautomation.com/downloads/ignition*

Built On Ignition! by inductive automation

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