

Voyager



Esco Isotherm® with Esco Voyager

Remote Monitoring, Datalogging, Programming Software

Esco Voyager is a PC-based software package developed for the remote monitoring, datalogging, and programming / device configuration of Esco controlled environment laboratory equipment. Compatible equipment includes laboratory ovens and microbiology incubators. Voyager interfaces with individual Esco equipment over RS485 using the EscoBUS communications protocol. Up to 16 devices of equipment may be interfaced to a single PC.

Compatible Equipment

- Lexicon® – Ultra-Low Temperature Freezer v.1 (with U-Series Controller)
- Celculture® – CO₂ Incubator (CCL) v. 1.3.1
- Isotherm® – Forced Convection Oven (OFA) v. 1
- Isotherm® – Forced Convection Incubator (IFA) v. 1
- Isotherm® – Low Temperature BOD Incubator (IFC) v. 1



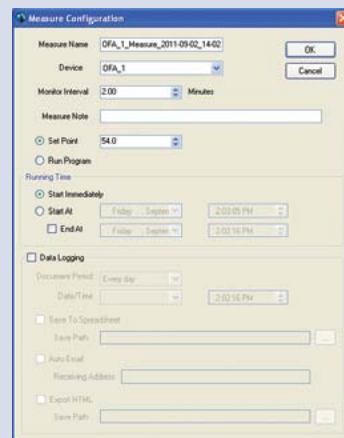
Esco Isotherm® units that compatible with Voyager



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Esco Voyager start page allows user to easily navigate to all the software's feature.

Features Remote Monitoring and Datalogging



Datalogging (measurement) configuration window allows the user to easily set up the measurement interval, temperature set point, low temperature alarm point and high temperature alarm point of a chamber or an equipment. This window also allows the user to choose the method of when and which data can be viewed (spreadsheet, e-mail, web page).

Remote Monitoring and Data Logging:

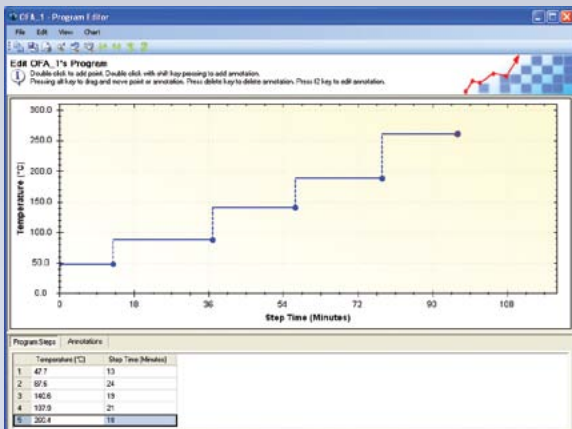
- o Automatic, continuous monitoring of device parameters (Temp, CO₂, RH, etc.).
- o Viewing and graphing device parameters in real-time.
- o Saving and exporting log data in various formats.
- o Automatic emailing of log data at user-defined intervals.
- o Download of data logs from equipment memory (only for devices with built-in data logging memory, i.e. CO₂ Incubators).

Alarm

- o Alarms when exceeding a user-defined parameter limit
- o Automatic email alerts
- o Documentation of all alarms with time/date stamp

Remote programming and equipment configuration

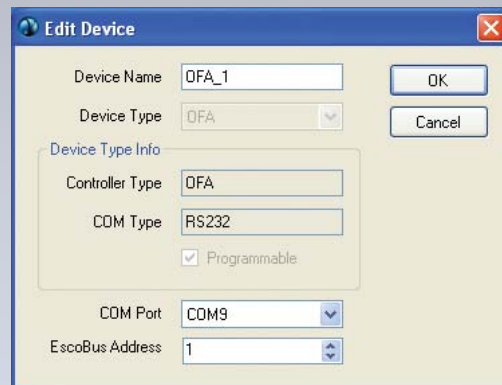
- o Development of programs using a graphical interface, for subsequent download to device memory (only for equipment with program functions, i.e. Forced Convection Laboratory Ovens and Incubators).
- o Configure devices remotely (set points, local alarm limits, etc.).



Chamber programming window allows the user to easily program a chamber or an equipment by using a user friendly GUI.

Communications

- Industrial strength, industry-standard RS485.
- EscoBUS communications protocol.
- RJ45 ports at rear of each piece of equipment.
- RJ45 to USB interface, plugs into PC USB port.
- RJ45 to RS232 interface, plugs into PC DB9/Serial Port.
- Each device on network must be assigned a unique EscoBUS address.
- Up to 4 devices of CO₂ Incubator may be daisy-chained to a single PC.
- Up to 16 combined devices may be daisy-chained to a single PC.
- The maximum distance between equipment is 100 m (328'), while the maximum distance between the PC to the last equipment is 1000 m (3280').



Chamber configuration window allows the user to set up the method by which the chamber is connected to the PC or server.

System Requirements

- Operation system : Windows 2000, XP, 7, and Windows 2003 Server.
- Memory : 512 MB
- Hard disk space : 1 GB
- Interface : USB/RS232
- Prerequisite Software : .NET Framework 2.0 (included)
Windows Installer 3.1 (included)
- Internet connection is required for auto mailing feature

Biological Safety Cabinets and laminar Flow • Laboratory Fume Hoods • Laboratory Ovens
Laboratory Incubators • PCR Thermal Cyclers • Microplate Shaker/Incubators • Ultraflow Freezers



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