

Assure24seven web-based monitoring Kryo-Connect modules - web access for lab devices

- Web-based products
- Browser access
- Traceable records
- Economical solution
- 1,000 measurement points
- Email & mobile notifications
- Stand-alone mode



Assure24seven

The Assure24seven suite of products, from Planer, offers users a versatile mix of features and optional capabilities to suit all customer requirements and budgets.

Products are 'web-based' which means that information can be accessed from anywhere in the world, by means of 'web-browsers', so no software is required at the point of access.

A very wide range of input parameters such as temperature, level, humidity etc. can be monitored around the clock. Deviations can instigate public alarms or can be set to send notifications to named individuals by email or mobile phone. Over 1,000 measurement points can be accommodated and the system can start small and be added to, by the user, at any time, without the need of specialists.

A wide variety of standard reports is available, incorporating both tabular and graphical data, and custom reports are easily created, again, by the user, without need of specialist help.

Data is locked forever in a secure tamper-proof store and 'digitally-signed documents' and secure, password protected, log-ins ensure that systems meet the requirements of CFR 21 Part 11 security regulations.

Kryo-Connect modules

Kryo-Connect modules are used to connect laboratory equipment fitted with an external serial interface - such as freezers, liquid nitrogen storage vessels, incubators etc. - with a monitoring and logging system such as Kryo-Assure or Data-Later.

As with the Kryo-Base modules, a single Ethernet connection terminal enables data from each Kryo-Connect module to be shared across a LAN and connected to an Assure24seven monitoring and logging system.

These modules incorporate device-specific software - from equipment such as freezers, liquid nitrogen vessels or incubators - bring forward all the control functionality the equipment manufacturer has provided via the serial interface, either RS232 or RS485.

When connected by means of an RS485 interface, the Kryo-Connect modules can make connection with up to 5 devices - freezers, vessels etc. - and hence a very economical solution can be provided.

Once the data has been logged, within the Assure24seven system, it is recorded and processed in the normal way.

A traceable record of operational performance is analysed and permanently recorded, with backups and archives as required, alarms are given on any deviation from normal operation and regular reports supplied as required.

Kryo-Connect modules can also be used in 'stand-alone' mode independent of either Kryo-Admin or Data-Later monitoring and logging systems. The precise information available will depend on the particular device being controlled or monitored but typically modules can perform the following functions,

- E-mailed logs of measured data
- E-mailed alarms
- On-line system configuration
- Multiple device handling (RS485)
- On-line profile editing
- On-line run initiation
- On-line display of real-time data
- On-line entry of calibration details
- Automatic run-data emails

Because of the open nature of the Assure24seven system, and the ease with which users can scale and configure new variables, modules can be added at any future date, without the need for specialist programmers or expensive call-outs.

Assure24seven web-based monitoring

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System Requirements:

Network:

- 10 base T Ethernet connection - Category 5e cable recommendation as minimum.
- Free RJ45 Socket on hub or router located within 100m (330 feet) of the unit.

Client PC:

- Microsoft Internet Explorer v6+ with cookies enabled and Java Virtual Machine (VM) installed.

Administrator's PC:

Please note that this PC is only required when first connecting the unit to the network. Once the connection has been made only the standard Client PC is required.

- 32 MB RAM minimum
- Windows 95 SP1, 98 SE, NT4 + SP5, ME, 2000 + SP2, XP Home or Professional.
- CD Drive.
- Microsoft Internet Explorer v6+ with cookies enabled and Java Virtual Machine (VM) installed.

Kryo-Connect modules available:

- Kryo-Connect for TEC 2000 This module designed for use with Chart Industries TEC2000 controllers.
- Kryo-Connect for TEC 3000 This module designed for use with Chart Industries TEC3000 controllers.
- Kryo-Connect for Planer Freezer This module designed for use with Planer freezer, model number K750.
- Kryo-Connect for AL Espace This module designed for use with Air Liquide Espace freezer vessels.

Specifications:

Kryo-connect:

- DC power inlet 5 V \pm 0.25V 300 mA
- Interfaces: RS232/RS485 - 9 way D Type plug - pinout as DTE for RS232
10 Base T Ethernet - RJ 45 shielded
- Internet SMTP e-mail client
FTP server
Telnet client/server
HTTP v1.0 web server
TCP-IP/UDP/ICMP
- External Dimensions 115mm x 83mm x 35mm
- Weight 0.23kg

Power supply:

- External dimensions 30mm x 45m x 85mm excluding mains socket adaptor
- DC cord length 1.8m
- Connector 2.1mm x 5.5mm x 9.5mm coaxial plug, centre positive.
- Weight 0.14kg
- Input 100-240 V~, 50-60 Hz, 0.25 A
- Output 5A, 1.0A, \pm 5%

General:

- Operating environment 5 C to 40 C, 10% to 90%RH non-condensing
- Storage environment -10 C to 50 C, 10% to 90%RH non-condensing

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