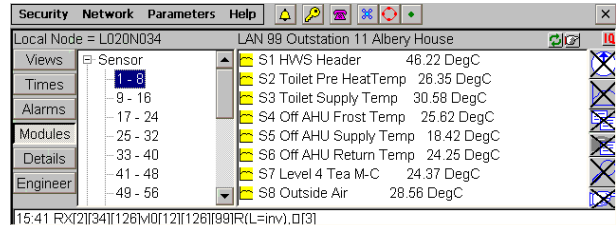


915 Mobile Display Software



Description

The 915 Mobile Display Software (915MDS) user interface for the Trend Building Management System. Running on a PC it provides an interface to the IQ system enabling monitoring and adjustment of parameters within IQ and IQL controllers.

The 915 MDS can be connected to the Trend network using a standard network connection (IQ2xx local supervisor port or CNC2), using a modem, or over Ethernet. A GSM phone may be used instead of a modem.

Features

- Access to parameters in IQ, and IQL controllers.
- Simple adjustment of module parameters.
- Driver override facility.
- GSM compatibility.
- Graphs.
- Display and Directory module support.
- Display of alarms.
- Simple connection to IQ network.
- Configuration mode access.
- Strategy backup and restore.

FUNCTIONALITY

The 915MDS communicates with one controller at a time, and can display information about the occupation times, device address, and the current value of sensors, digital inputs, knobs, switches, and drivers within the controller. If required, knobs, switches, and occupation times can be adjusted. Sensors logged in the controller can be graphed, and if required, the graphs saved to file.

The 915MDS can connect to a IQ device/network in one of two ways:

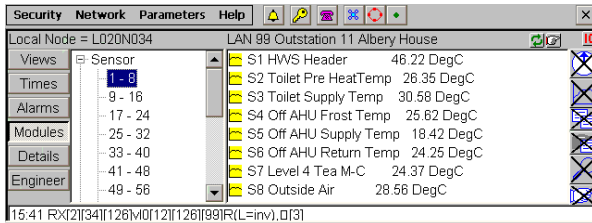
- Plugging directly into a device
- or Dialling into an /ADL device or TMN v4.1 or greater.

When plugged directly into a device the connection is known as a 'Direct connection'. If the 915MDS is plugged into a suitable node controller, or a controller's 'Local Supervisor' port with network access it is able to access any device on the network to which it is connected. If it is plugged into a controller's 'Local Supervisor' port which doesn't have network access, it can only communicate with that device. The connection to the device can be made using either a serial connection, or an Ethernet connection.

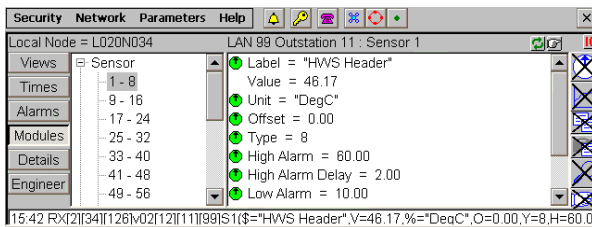
When dialling into an /ADL device or TMN v4.1 or greater, the 915 uses a standard modem to connect to that device over a PSTN, and once connected it can communicate with any other device on the network. When the 915MDS dials into a TMN v4.1 or greater, it is able to access any device on the network to which it is connected, providing the device is not over another autodialled link. When the 915MDS dials into a /ADL device it is able to access the /ADL device, and the device at the address of the /ADL device + 2. The modem can either be internal to the device on which the 915MDS is running, or external. This means that a GSM phone, and suitable modem can be used to provide a remote connection.

FUNCTIONALITY (Continued)

Access to parameters in IQ controllers: The 915MDS provides access to the occupation times, device addressing information, the current value of sensors, digital inputs, knobs, switches, and drivers within the controller, as shown below. It also provides access to both current and historic alarms for the selected controller. Where appropriate the value of the parameters can be adjusted (providing the user has the authority), and sensor logs displayed in graphical format.

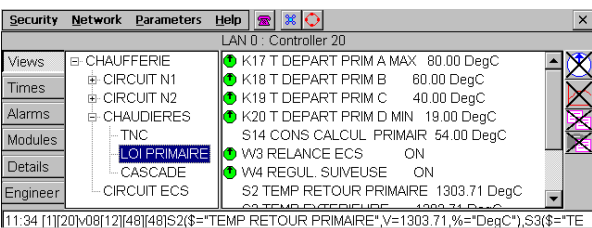


A Type 2 licence also allows access to Loops and IC Comms modules, and enables users to 'zoom in' on a particular module, in order to view its configuration parameters.



Simple adjustment of module parameters: Parameters that can be changed are clearly indicated by an icon (●). Adjustment is made from a simple dialogue box designed to suit the type of adjustment being made. Security is provided by the PIN protection inside the IQ controller. If PIN protection is enabled, 915MDS will not be able to make the change unless the user logs on using a PIN that is valid in the controller, and will allow the change.

Display and directory module support: Display and directory modules are supported, enabling information within the controller to be easily located using the display and directory module structure set up in the controller itself.

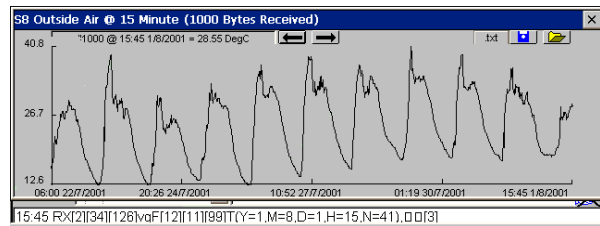


Driver Override: The driver override function enables 915MDS to override the output of a driver. This allows the I/O to be tested. The 915MDS keeps a list of drivers that have been overridden, and can search the system for drivers in an override state.

For IQs the driver is overridden by changing its source to the standard nodes used for values of 0, 1, 50, or 100 depending on which position the driver is to be overridden. 915MDS will alert the user if the standard node where these values are normally stored are not set up as per the standards.

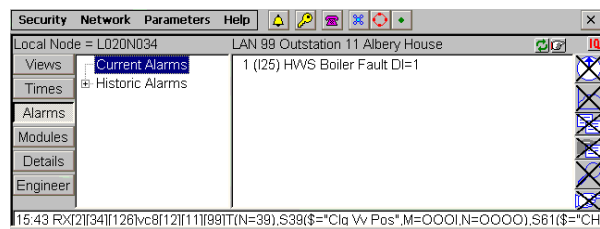
For IQLs the driver is overridden by putting the IQL into its special override mode.

Graphs: Graphs of sensors logged in the controller can be displayed, as shown below. These sensors are clearly indicated by an icon (📊) next to them in the display.

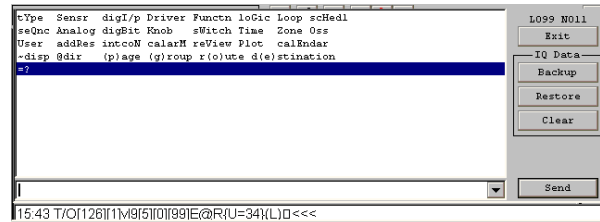


If required these graphs can be saved for future viewing even when the 915MDS is not connected to the controller.

Display of alarms: Alarms can be displayed for the controller to which 915MDS is currently connected. It is possible to view both current and historic alarms.



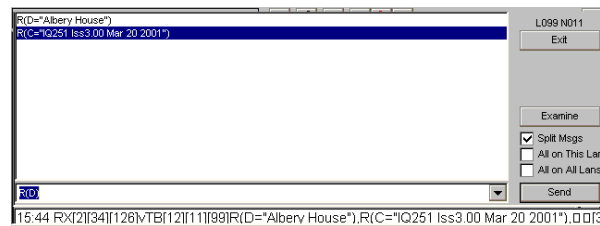
Configuration mode access: The 915MDS can access any IQ device to which it can communicate in the device's configuration mode.



File Backup/Restore: 915MDS can backup strategy from an IQ controller in either IQ2 or IQF format as appropriate. Strategy can be restored if required. (Type 2 licence). It can also backup and restore settings from IQL controllers.

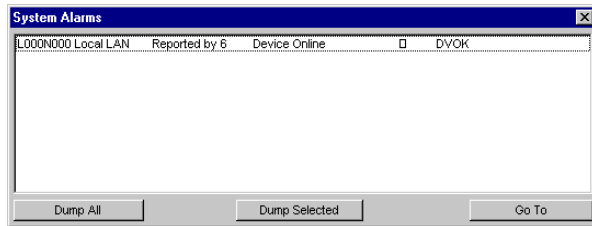
Text Comms: The text comms function enables user-entered Text Comms requests, or writes to be sent to the target controller. (Type 2 licence).

Text comms messages are easily entered, and automatically stored for re use, attributes can easily be prefixed to requests using a simple drop down menu.



FUNCTIONALITY (Continued)

Alarm receipt: Alarms sent to the network address of the 915MDS are displayed in a dialogue box similar to the one shown below.



COMPATIBILITY

915MDS can communicate with all Trend devices, and receive or adjust values from any Controller. The table below illustrates the different sites that can be accessed with the different connections to the Trend network.

	915 Connection Type		
	Direct		ADL Modem
Connect to device	Serial	Ethernet	
Directly	Yes	Yes	N/A
on Local Lan	Yes	Yes	N/A
on Internetwork	Yes	Yes	N/A
on Remote Lan	Yes	Yes	N/A
on Autodialled Lan or Internetwork (autodialled TMN <=4.1)	Yes via TMN or equivalent with the site set up in the number table.	Yes via TMN or equivalent with the site set up in the number table.	No
on Autodialled Lan or Internetwork (autodialled TMN v>=4.1)	Yes via TMN or equivalent with the site set up in the number table	Yes via TMN or equivalent with the site set up in the number table	Yes
/ADL	Yes*	Yes*	Yes*
	via TMN v4.1 or greater with the site set up in the number table.	via TMN v4.1 or greater with the site set up in the number table.	

*Access to that /ADL device, and the device at the address of the /ADL device + 2.

If connecting to a Trend auto-dialling device e.g. TMN, the device must be version 4.2 or greater for full functionality. It will connect to a version 4.1 auto-dialling device, but mapping is not supported. It is not possible to connect to old Trend MNC autodiallers using modern modems because the modulation frequencies that the Trend MNC modem uses across the phone line are not supported by any current modem. Therefore to connect with 915 to sites which currently have Trend MNCs will require to have MNC's upgraded to MNC(U) or replaced by TMNs.

INSTALLATION

The installation of the software is performed by a step by step installation program. The first time the software is run it will prompt for an unlock code, which is available from Trend. The installation procedure is described in detail in the instructions supplied with the product.

ORDER CODES

There are two types of licence for 915MDS, Type 1, and Type 2. The licence provided when the product is purchased (915MDS) is Type 1 which does not expire, but does not allow access to the engineering features. The Type 2 licence, which provides access to those facilities, is 'time limited', and only available to accredited Trend Technology Centres. If the Type 2 licence expires, the Type 1 licence can be entered to use the product without the extra engineering features.

Non USA Order Code
915MDS

USA Order Code
882001000

:Mobile display software for PC on CD.

The cable supplied is for connection to IQ2xx Controllers. To connect to earlier IQ devices, additional cables must be purchased.

CABLE/58-0705
CABLE/78-1172

9 way female D type to 25 way D type.
9 way female D type to 5 in line.

SPECIFICATIONS

For PC

Pentium II 200 MHz, 64 Mb RAM, 1 Gb hard disk, CD-ROM drive, Graphics Card with 2 Mb of RAM capable of 1024 X 768 (256 colours), 17" monitor, keyboard, mouse, 1 serial port, 1 parallel port, and Microsoft Windows 95®/98®/NT®/2000®.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorized Representative, Trend Control Systems Limited.

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