

dotLINK

Network capabilities for GC and HPLC



Introduction

The dotLINK™ interface is the new link for TotalChrom® Chromatography Data Systems available as an internal board in the PerkinElmer® Clarus® 500 Gas Chromatograph (GC) or as an external device for the PerkinElmer Series 200 High Performance Liquid Chromatography (HPLC) systems and third-party control.

The dotLINK interface runs under a Microsoft Windows CE.NET 4.2 operating system. The dotLINK main board provides an ethernet port which allows the instrument to connect directly to the local area network (LAN) and a serial port for simpler configurations. TotalChrom workstation and TotalChrom Client/Server can access and monitor multiple instruments simultaneously through the instrument IP addresses.

Applicable systems

The dotLINK interface supports the PerkinElmer Clarus 500 GC and GC/MS, the PerkinElmer Series 200 HPLC systems, the Agilent 1100 HPLC and the Agilent 6890/Plus GC.

Configurations

The dotLINK interface supports the following GC and HPLC configurations:

- Maximum of three PerkinElmer Clarus 500 GCs for each external dotLINK box
- Maximum of one PerkinElmer Series 200 HPLC system stack (pump, autosampler, UV/Vis detector and NCI)
- Maximum of two Agilent 6890 GCs
- Maximum of one Agilent 1100 HPLC system stack (pump, autosampler and UV/Vis detector)

Key Benefits

- Ethernet connectivity directly to the local area network (LAN)
- Minimal validation required in regulated environments
- Instrument control and data buffering
- Eliminates need for terminal servers
- Supports the PerkinElmer Clarus 500 GC and GC/MS, PerkinElmer Series 200 HPLC, Agilent 1100 HPLC and Agilent 6890/Plus
- Small footprint link box provides more space for the laboratory
- User upgradeable software through USB port

The dotLINK interface, in its embedded GC configuration, has one RJ-45 serial port for serial connectivity to a host computer, one RJ-45 port for ethernet connectivity and one USB port for software upgrades. The side of the panel of the Clarus 500 GC has a reset button and two status LEDs at the ethernet port.

When used with a HPLC system, the dotLINK interface has a small footprint, providing valuable space for your laboratory. The components are housed in a rectangular box and the front of the box has six LEDs showing the status of each of the serial ports. The back of the box has a reset button for IPM and IP address reset, six RJ-45 serial ports for serial connectivity (four are available for use at any given time), one RJ-45 port for ethernet connectivity, one USB port for software upgrades and a power connection.

Key features

Other key features of the dotLINK interface include:

- Network-ready status of dotLINK interface will be a more easily implemented solution for users – eliminating the need for intermediary terminal servers
- Applicable to Clarus 500 GCs only and not backward compatible with AutoSystem™ or AutoSystem XL™ GCs

- Runs on TotalChrom 6.3 systems and higher in both workstation and client/server environments
- Existing Clarus 500 GC customers who would like networking capability can upgrade by purchasing a new side panel kit



The dotLINK external interface.



Clarus 500 GC side panel displaying the ports of the internal dotLINK.

Specifications

Power supply:	Input: 100-240 VAC $\pm 10\%$, 50/60 Hz $\pm 1\%$, 0.3 A; Output: +5 VDC, 2 A maximum Local power cords available
Temperature:	Indoor use only; +10° to +35° C (operating range); +5° to +40° C (safe operating range) -20° to +60° C (storage range, non-operating)
Altitude:	0 to 2,000 meters (operating); 0 to 12,000 meters (non-operating)
Relative humidity:	20% to 80% (non-condensing)
Dimensions:	dotLINK box: 8.0 L x 4.0 W x 2.0 H (in); 203.2 L x 101.6 W x 50.8 H (mm) Power supply: 3.3 L x 1.8 W x 1.3 H (in); 85.0 L x 46.0 W x 33.0 H (mm)
Mass (weight):	dotLINK box: 0.652 kg (23 oz) Power supply: 0.136 kg (4.8 oz)

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