



PRODUCT SPECIFICATIONS

# TraceNet™ Command Application Suite

## APPLICATION . . .

TraceNet Command Application Suite is a Supervisory Control and Data Acquisition (SCADA) suite. It was developed specifically for interfacing among Thermon Control and Monitoring systems through industrial communication lines.

The Application Suite can be run from any computer connected to the database and TraceNet DCD. Each application functions independently, allowing the user to customize reports and information much more readily.

### Specific applications offered within TraceNet Command:

**System Status** – This application shows the timestamp of incoming data, both from the controller as well as the database. It also shows the synchronization of the system information across all operators, displaying when setpoints have changed and when they've been updated within the controllers.

**Setpoint Editor** – This application offers the operator the ability to view and edit any setpoint of any controller or set of controllers. Setpoint Editor also enables the saving and implementing of scenarios or batch changes to a plant.

**Circuit Viewer** – This application sorts through the selected group of controllers heat trace circuits, displaying graphically and numerically the setpoints for current, ground current and alarms. It also allows the operator to control the status of the circuit.

**Temperature Viewer** – This application graphically displays the temperatures for the selected group of controllers' heat trace.

**Alarm Historian** – This application allows an operator to view all alarms from all controllers within a plant, and to sort them by date, by function, or by circuit and controller.

**Trending** – This application tabulates and displays information in a line graph format. It allows the operator to view trends over time – or in coordination with other system variables in order for Key Performance Indicators to be more easily detectable and tracked.



## FEATURES . . .

- Simple coordination, organization, control, and monitoring of multiple circuits
- Alarm Historian makes tracking and trending conditions in the plant easier.
- Multivariable trending enables smoother and more functional Key Performance Indicator (KPI) development.
- System scenario build for quick process or large scale operations
- Database operations allow for increased security and reliability in data acquisition
- DCS integration for remote operations are made more efficient with SQL Database

## SYSTEM REQUIREMENTS . . .

### Application Station:

CPU..... 800MHz or Faster  
 O/S .....Windows 7 or better, Linux or Apple – 64bit  
 Screen Resolution..... 1280 x 720  
 Available RAM..... min 4GB  
 Free Hard Disk Space.....min 512MB  
 Communication ..... Ethernet

### Database Station:

CPU..... 1GHz or Faster, 4 Core  
 O/S ..... Windows Server, Linux  
 Available RAM..... min 4GB  
 Free Hard Disk Space..... min 500GB  
 Communication ..... Ethernet

### Database Station:

See TraceNet DCD specifications on reverse side of this sheet

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Application Suite

## TRACENET DATA CONCENTRATOR DEVICE (DCD)

The TraceNet™ Data Concentrator Device (DCD) is specifically designed to efficiently facilitate the rapid communication of controllers across a wide spectrum of computer networks. Through adaptive and agile programming, the DCD is able to coordinate the information flow from up to a hundred controllers per serial port and disperse it to any number of operator and Distributed Control System (DCS) workstations.

The DCD functions by acting as a dedicated headless industrial data device that communicates via MODBUS communication protocol to a variety of Thermon temperature control and monitoring devices. The DCD collects data from the modules from either its built-in RS-485 serial ports or its Ethernet port and distributes that information along specified operator workstations. It can be configured to work in RS-485, UDP, and TCP MODBUS protocols.

TraceNet DCD is fully buffered, containing a complete set of memory maps of all Thermon Controllers in its RAM for fast, simultaneous communication to multiple MODBUS TCP Clients. The TraceNet™ DCD can be quickly configured to support any network design and rapidly improve existing communication systems. The TraceNet DCD features a rugged design and a small footprint, ideal for indoor enclosures of NEMA 4, 4X, and 12.

### RATINGS

The **TraceNet DCD** is a microprocessor based data concentrator with the following specifications:

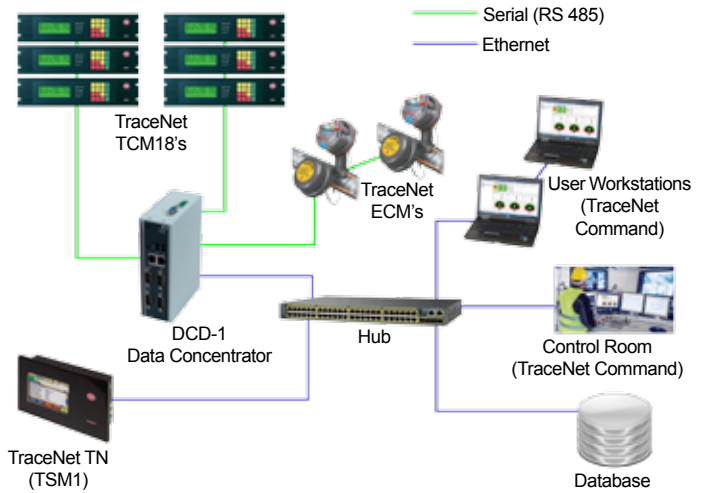
Nominal Supply Voltage .....	24 VDC
Input /Output Ports .....	10/100/1000, EtherNet, 2 USB 2.0, 4 x 485 (COM1-4)
Maximum Storage Temperature .....	185°F (85°C)
Minimum Storage Temperature .....	-40°F (-40°C)
Operating Ambient Temperature Range .....	-4°F (-20°C) to 158° (70°C)

### ModBus Serial Communications

Up to 247 ModBus devices can be connected to the RS485 serial ports up to a distance of 4000 feet(1220 m).



## EXAMPLE CONTROLLER NETWORK DIAGRAM



### FEATURES

- Unit operates in range of indoor ambient conditions ranging from -4°F (-20°C) to 122°F (50°C).<sup>1</sup>
- Serves Modbus data simultaneously to multiple TCP clients such as DCS/SCADA or TVNE.
- Robust with field proven performance reliability.
- Power cycle tested with auto restart on error.
- Remotely configurable from anywhere on the network.
- DIN rail mountable.

### Notes

1. A lower ambient temperature rated module is available. Contact factory for details.

## PRODUCT REFERENCE LEGEND

