

THERMO SCIENTIFIC LC450 OPERATOR CONSOLE

PRODUCT OLC00-00

The LC450 Operator Console provides full operator visibility to all real time functions. This elegant, but rugged package is suitable for operation in industrial environments. It is also compact, takes up less space and is available in ambient and high temperature variations.

The LC450 Operator Console utilizes a flat panel LCD touchscreen display, resulting in a simple and intuitive interface. Operators touch the screen to perform tasks, such as accessing displays or acknowledging alarms

A Windows® PC Workstation supports operator, display, and supervisory control functions. This workstation-based design combines high-resolution graphics and powerful processing in order to provide maximum visibility and performance. A wireless keypad allows for supervisory access for System tuning.

The LC450 Operator Console application software is based on Wonderware®, the world's most advanced HMI software, guaranteeing against obsolescence.



FEATURES AND BENEFITS

- Rugged operator console designed for industrial environments.
- The operator console is CE compliant.
- The color LCD monitor provides high-resolution display capability.
- Touchscreen design offers simple and intuitive interface, while a keypad allows for supervisory access for System tuning as needed.
- Industry standard Windows® Workstation provides high-speed processing and high-resolution graphics for display and supervisory functions.
- Wonderware based software design reduces the risk of obsolescence facing proprietary solutions.
- Console is industrially hardened, making it dust and splash resistant.
- Non-exchanging air conditioner is available as an option for operation in high temperature locations.
- Windows based operating system provides compatibility with all standard PC software packages.

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DESCRIPTION

The LC450 Operator Console provides full access to all real time functions for a single line. Typical uses for the Operator Console include loading recipes, viewing product profiles and quality, initiating auto control, viewing alarms, monitoring process values, etc.

The LC450 Operator Console incorporates a high-resolution color LCD with touchscreen, which allows the operator to select commands, displays and menu items by simply touching the screen. This intuitive interface maximizes operator utilization while minimizing training costs.

A wireless keypad is included for Supervisory access for System tuning as needed.

POWERFUL PROCESSING

The LC450 Operator Console utilizes a powerful Windows workstation running Wonderware to support display and supervisory functions. This Wonderware-based design utilizes industry-standard components to support graphics, processing, and communications. This approach reduces the risk of obsolescence, since upgrades and innovations are commercially available.

The LC450 Operator Console acts as a supervisory computer for distributed Thermo Scientific and third party control modules. The hard disk drive can accommodate configuration and recipe data for the entire process control network.

The LC450 Operator Console PC communicates to other modules by means of an Ethernet network. This Local Area Network (LAN) allows the system to communicate at speeds of 10-mega baud, ensuring sufficient bandwidth to support the most demanding application requirements.

RUGGED PACKAGING

The LC450 Operator Console completely seals all electronic components in a rugged splash and dust resistant enclosure. An optional non-exchanging air conditioner ensures that the console is able to operate reliably under demanding high temperature conditions.

RELIABILITY AND MAINTAINABILITY

The LC450 Operator Console is designed with reliability and maintainability in mind.

Furthermore, the use of industry-standard workstation components results in modular support electronics that are easy to repair, replace, or upgrade.

OPTIONAL HOT ENVIRONMENT KIT

For operations in a hot environment, the LC450 Operator Console is available with the option of ProAir CR-23 series Air Conditioner.

This air conditioner is designed to be maintenance free, with the exception of the condenser air inlet filter. To ensure reliable, continuous operation, the inlet filter inside the top right corner of the Air Conditioner should be removed and cleaned or replaced periodically. The Air Conditioner is available in two models, one for 115V and the other for 230V.

The Air Conditioner is mounted in the back of the LC450 Operator Console and the depth of the console with the Air conditioner is 34" or 84.5 cms.

The Air Conditioner is rated at 1600 BTU/Hr at maximum ambient temperature of 131 degrees F (55 degrees C).

SPECIFICATIONS

Display	-----	17-inch color touchscreen 1024 x 768 pixel resolution
Processor	-----	Windows Workstation
Power	-----	115 V ac \pm 10%, 60 Hz 230 V ac \pm 10%, 50 Hz 1.1 KVA UPS included
Air Conditioner (optional)	-----	1600 BTU Non-exchanging, closed loop
Temperature:	-----	35 °C (95 °F)
With air conditioner	-----	50 °C (122 °F)
Humidity	-----	0-95% non-condensing
Dimensions	-----	Height: 168.6 cm (66.0 in)
(Including A/C)		Width: 45.7 cm (18.0 in)
		Depth: 84.5 cm (34.0 in)

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