

I/A Series® Hardware

PSS 21H-4C1 B3

Command Center™



The Command Center™ provides you with the ultimate control center to monitor and direct every process in your manufacturing environment.

OVERVIEW

Designed with both the operator and engineer in mind, the Command Center enhances the control environment by providing an interactive, user-friendly workplace to centrally control and monitor process needs. It incorporates multiple, swivel mounted flat screens and large overhead screens in conjunction with remotely mounted workstation processors and application processors.

The Command Center is designed to incorporate all the interactive tools necessary to perform your tasks in a professional and safe manner. These include the annunciator or alphanumeric keyboards, mouse, trackball, and printers. It is ergonomically friendly, allowing the operator and/or engineer to spend more productive time monitoring and controlling the process. Comfort and easy access to all controls, monitors, and process alarms are evident with the Command Center. Heavy gauge sheet metal and a power coat paint finish provide long lasting durability.

LCD Flat Panel Displays

The pole mounted 19-Inch or 20-Inch flat panel display (Figure 1) combines sharp, crisp images with the ability to swivel vertically and horizontally so that individual operators can adjust for optimum visibility.

In addition, these displays have features not available with standard CRTs:

- ▶ Liquid Crystal Displays (LCDs) do not experience permanent burn-in which is common with CRTs
- ▶ Reduced glare from overhead lighting, a common problem in control rooms
- ▶ Exclusive LCD technology which increases the viewing angle to 80 degrees up, down, left and right
- ▶ No picture distortion caused by misaligned or distorted beam sweeping mechanisms
- ▶ A compact design less than three inches in depth, weighing 7 kg (16 lb)
- ▶ Low power consumption for cost savings
- ▶ Less heat for lower air conditioning costs
- ▶ Reduced emissions
- ▶ Up-front controls that permit easy access for simplified image adjustment
- ▶ Immunity to ambient magnetic fields
- ▶ Mountable on both Command Center bays and wedges

Refer to *Liquid Crystal Display (LCD) Monitors* (PSS 21H-4D10-B4) for full LCD monitor description and specifications.



Figure 1. Pole Mounted LCD Monitor

Operator Interface Tool Set

The operator tool set consists of:

- ▶ Annunciator keyboard and annunciator/numeric keyboard
- ▶ Mouse or trackball
- ▶ Alphanumeric Keyboard
- ▶ Printer.

Configurations

The Command Center consists of individual modules that may be configured into a customized console. Each module can incorporate up to two flat panel displays. This, plus all the operator interfaces, can control small to large scale processes. The components, pictured in Figure 2, represent modules that can be combined to develop a Command Center customized for your unique needs.

As your operator console needs change or grow, the Command Center can be enhanced by adding modules, displays, and peripherals. The ability to mix and match all of the displays and operator interface devices allows for almost an infinite number of combinations in support of your plant process.



Figure 2. Command Center Configurable Units

COMMAND CENTER ARRANGEMENTS

The Command Center with its configurable units provides selectable configurations of console equipment that can be arranged to meet the operational needs of a plant environment. Individual sections are joined on-site to provide a customized configuration using standard components.

This modular approach to console construction offers you combinations of general purpose units, single-screen, and dual-screen configurations (refer to Figures 2 through 7).

Individual console display options (mouse, keyboards, and trackball) apply as described in *Workstation Components* (PSS 21H-4D1 B3).

General Purpose Unit

The General Purpose Unit is the basic building block of the Command Center. It provides a platform to initiate the building of a customized Command Center for your processing needs.



Figure 3. General Purpose Unit

Command Center Bay

The full bay unit is designed to accommodate a complete range of I/A Series equipment. The unit can support workstation displays and panel-mounted equipment. In addition to the I/A Series equipment, the full bay can also house a wide variety of customer equipment.



Figure 4. Command Center Full Bay – Single Screen



Figure 5. Command Center Full Bay – Dual Screen

Display Mounting Poles

The display mounting poles of a bay accommodate one or two workstation displays, with height adjustments for flat monitor location and horizontal/vertical axis swivel adjustments for ease of operator use.

Command Center Worksurface

This worksurface is an ergonomically designed writing surface. The individual surfaces of each console bay join to form a continuous tabletop. Each worksurface section provides room for a free-standing keyboard or one keyboard and one mouse, or trackball. Free-standing keyboards can be alphanumeric, annunciator, or annunciator/numeric types. A quick connect/disconnect keyboard connector is provided on each console bay for the alphanumeric keyboard and/or mouse. Multiple free-standing annunciator, annunciator/numeric keyboards can be daisy-chained together.

Alphanumeric Keyboard Draw

An optional alphanumeric keyboard drawer can be mounted under the worksurface of a Command Center bay. The draw, when open, allows access to the keyboard and, when closed, provides a convenient storage space for the keyboard.

Command Center Wedge

Multiple bays are connected with these wedge modules to create curved console arrays. These wedges also provide an area for customer installed auxiliary pieces of equipment, such as plant phones and radios, as well as processor peripherals. Wedges can also be fitted with monitor mounting poles.

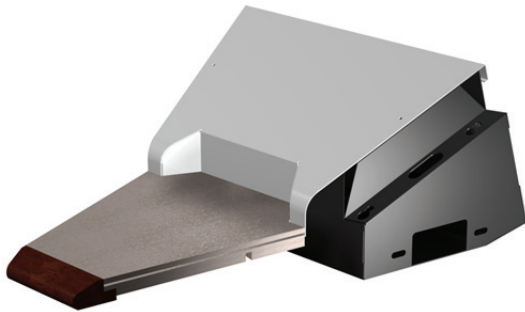


Figure 6. Command Center Wedge

Command Center End Table

The end table can extend an existing Command Center worksurface, or be used in combination with other Command Center full bays. It is typically used at one end of a Command Center as a worksurface or printer area. It can support other desktop equipment such as computers. It is available with two different surfaces, so depending on the configuration of the Command Center, it provides a continuous worksurface by attaching to either a wedge or bay.



Figure 7. End Table

40-Inch LCD Flat Panel Monitor

The optional 40-Inch, thin, LCD flat panel monitor displays large direct viewing color images and extends the flexibility of monitor applications. Designed with the plant environment in mind, this LCD display provides a wide viewing angle. These large images provide the engineer or plant supervisor with an unobstructed, accurate view of the plant process from a great distance. Overhead, wall and table top mounting is available.

The flat panel monitor can be installed in areas where high electromagnetic fields are present. Due to its design, the monitor is not impacted by these fields and distortions, such as “color drift”, and horizontal and vertical nonlinearity, are not experienced. Refer to *Liquid Crystal Display (LCD) Monitors* (PSS 21H-4D10 B4) for additional specifications.

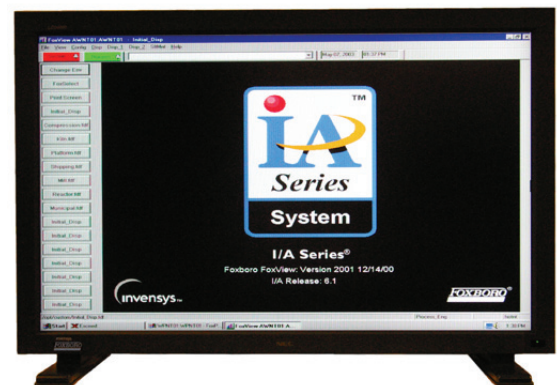


Figure 8. 40-Inch LCD Flat Panel Monitor

PHYSICAL SPECIFICATIONS

Mass

CONSOLE WITHOUT LCD DISPLAYS OR
MOUNTING HARDWARE
110 lbs. (49.9 kg)

CONSOLE WITH MOUNTING HARDWARE BUT NO
DISPLAYS
125 lbs. (56.7 kg)

ENVIRONMENTAL SPECIFICATIONS WITHOUT ELECTRONICS⁽¹⁾

Operating Temperature

0 to 40° C (32 to 104° F)

Storage Temperature

−40 to +70° C (−40 to +158° F)

Vibration:

0.1 g, 50 to 200 Hz

Relative Humidity

5 to 95% (noncondensing)

Location

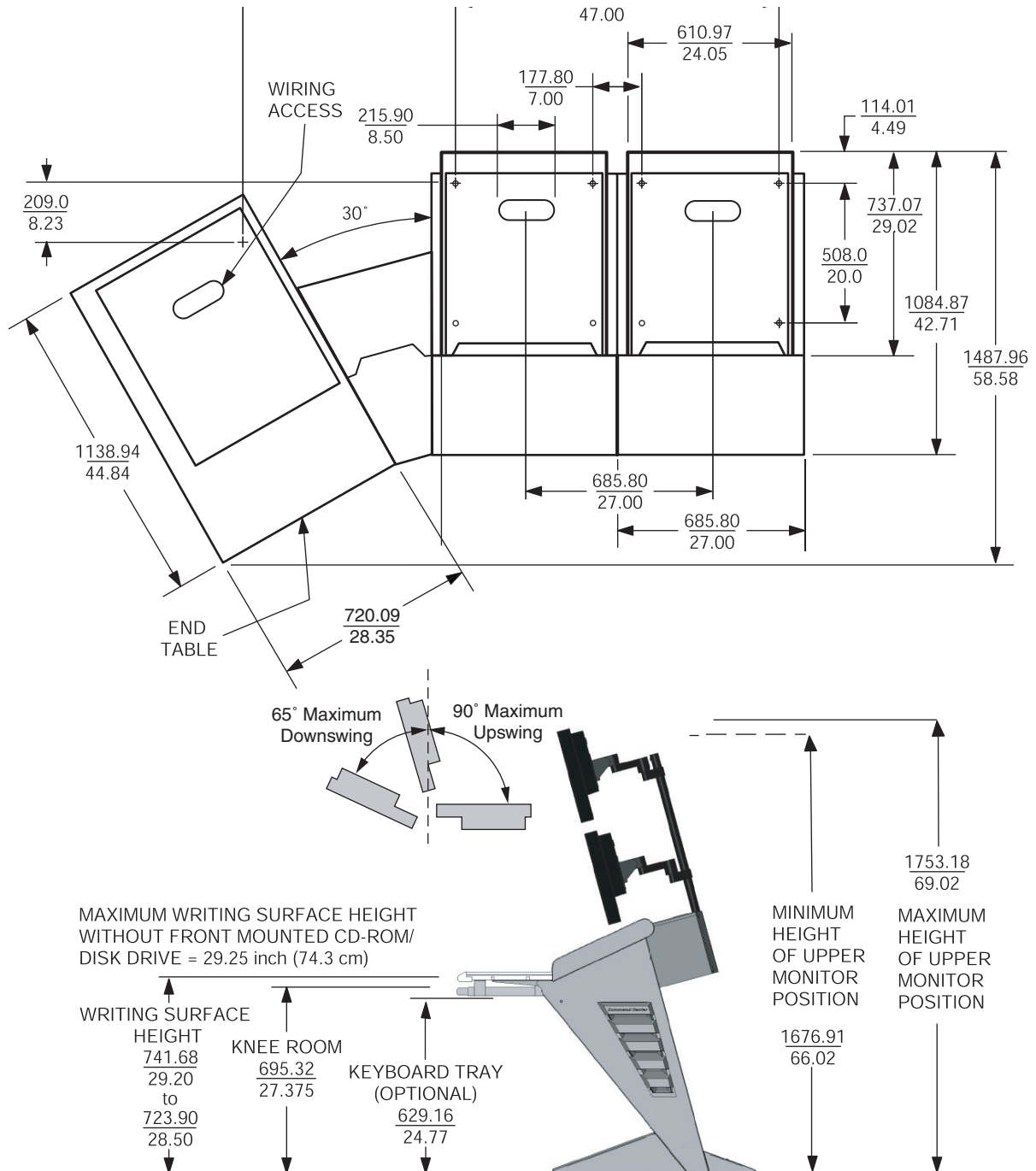
Is suitable for use in ordinary locations and is designed to meet ordinary safety standards for fire and shock hazards.

Contamination

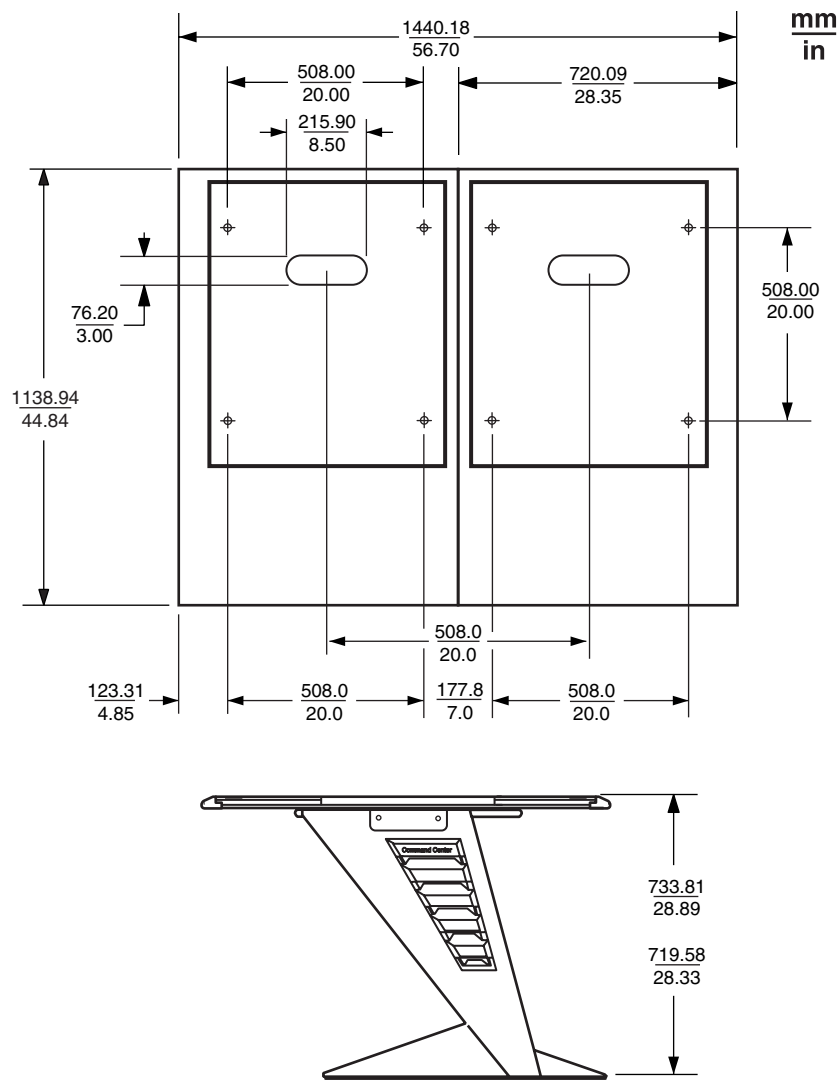
Class G1 (Mild) as defined in ISA Standard S71.04

(1) For Command Center only. Refer to the appropriate Product Specification Sheets (PSSs) for incorporated equipment specifications.

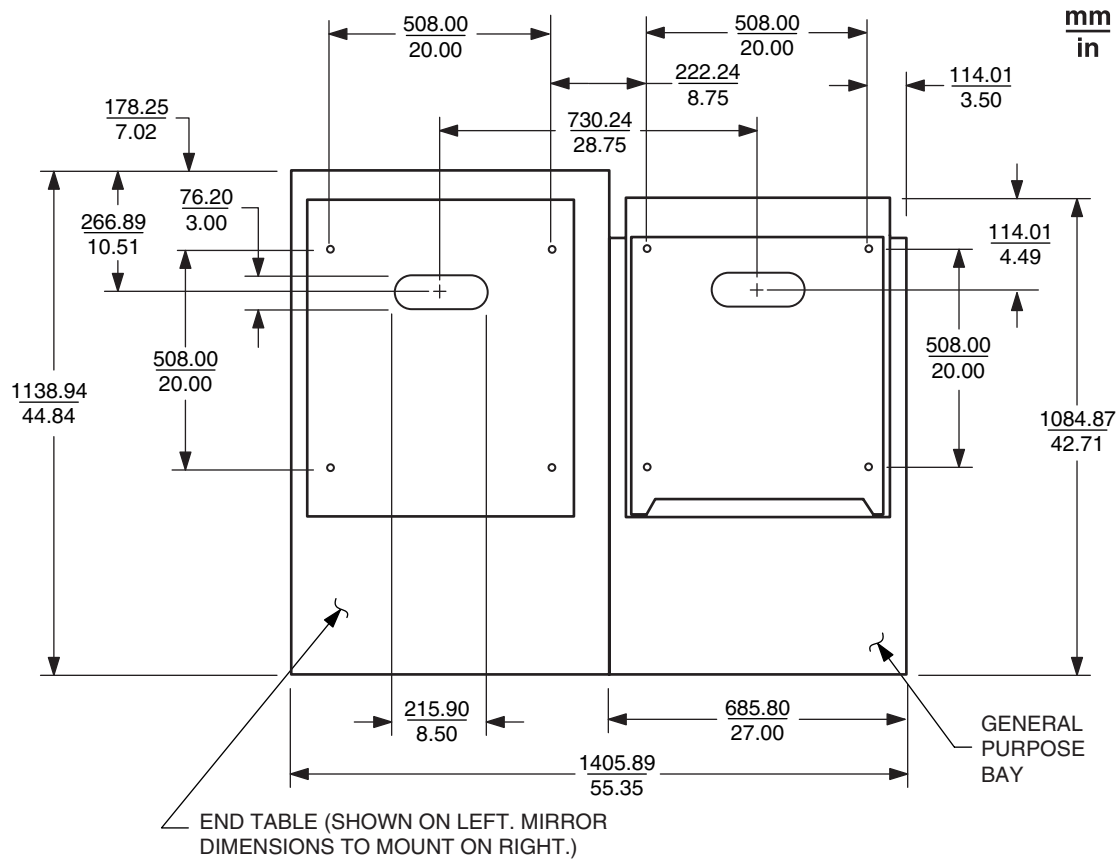
COMMAND CENTER FOOTPRINT - CONSOLE BAY



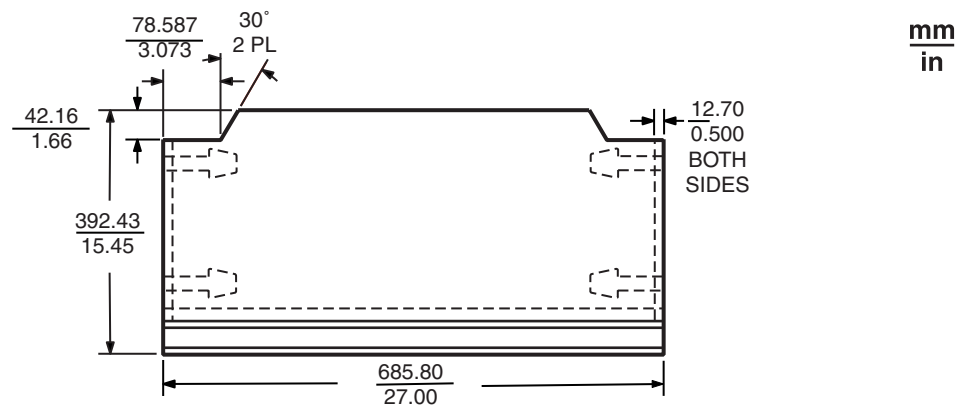
COMMAND CENTER FOOTPRINT - TABLE



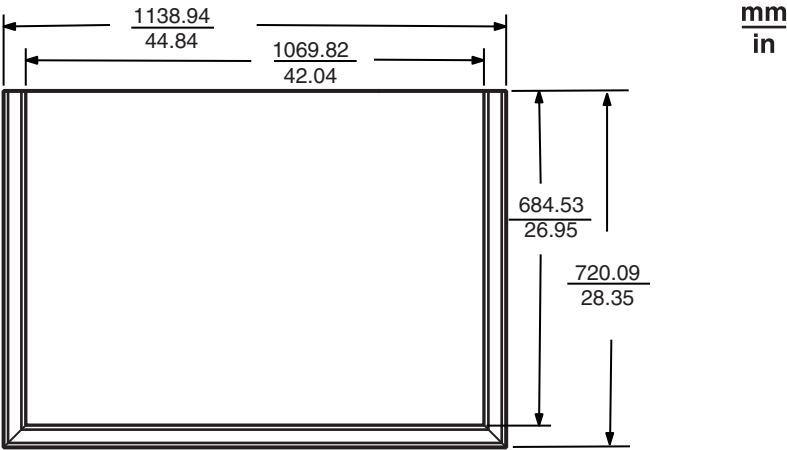
COMMAND CENTER FOOTPRINT - END TABLE



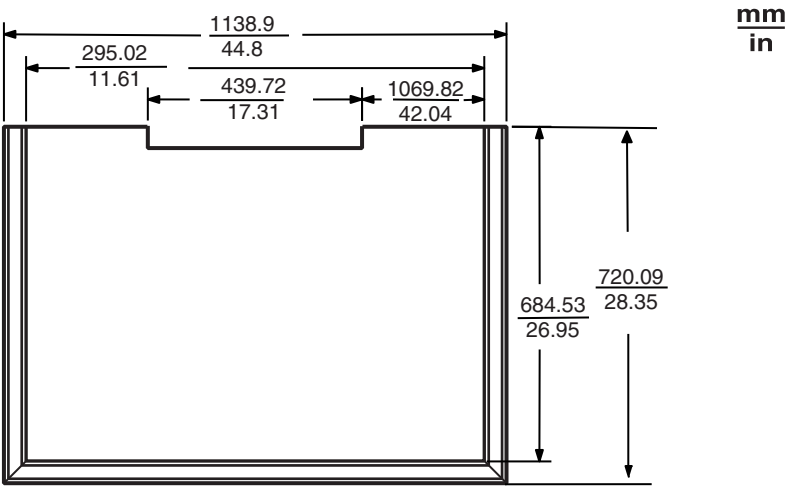
COMMAND CENTER WORKSURFACE



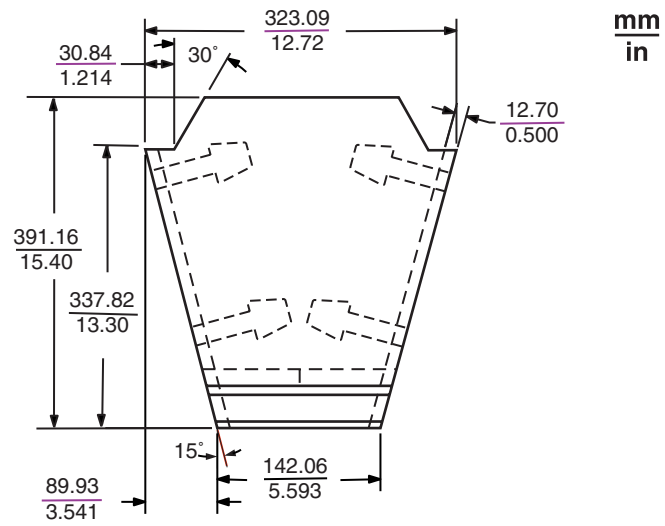
WORKSURFACE PRINTER TABLE TO BAY



WORKSURFACE PRINTER TABLE TO WEDGE



WORKSURFACE - WEDGE





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