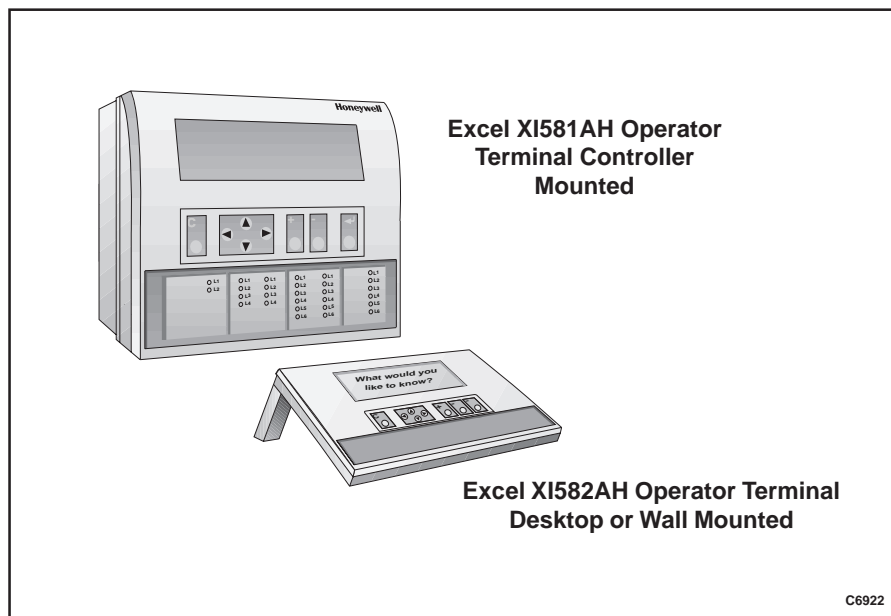


Excel XI581AH, XI582AH Operator Terminals

EXCEL5000[®]
S Y S T E M

SPECIFICATION DATA



FEATURES

- Menu driven operation
- Simple key functions
- Password protected operation
- Alarm handling capability

GENERAL

The XI581AH Operator Terminal functions as a controller mounted interface for Excel 500 and 600 Controllers. The XI582AH Operator Terminal functions as a desktop mounted interface for Excel 80B, 100B, 500, and 600 Controllers and for the Excel Link. Each terminal provides a simple, menu-driven display with extensive functions to view and modify data, such as setpoint values, actual temperature values, control status, and switching status.

To accommodate international applications, key functions on the keypads are shown by symbols rather than names.

Password protection ensures that only authorized persons have access to system data.

Both terminals provide an alarm handling capability which offers complete system integrity. Current alarm signals that appear in the display provide information that helps operators quickly distinguish between high and low priority alarm conditions.



DESCRIPTION

The XI58AH Operator Terminal functions as a controller mounted interface for Excel 500 and 600 Controllers. The XI582AH Operator Terminal functions as a desktop mounted interface for Excel 80B, 100B, 500, and 600 Controllers and for the Excel Link. Each compact terminal provides a simple, menu-driven display with extensive functions to view and modify data, such as setpoint values, actual temperature values, control status, and switching status.

Menu driven operation

Both the XI581AH and XI582AH Operator Terminals feature menu-driven operation. The LCD graphic display handles six 34-character lines. All menus, displays, prompts, and messages use English language text which can be freely accessed (see example below).

Main Menu Display

* EXCEL 500 *	
Password	Alarms
Time program	Trend log
Data point	System clock
	System data

The graphic display shows:

- User addresses—18 characters
- User address explanatory text—32 characters
- Trend values (temperatures or statuses)
- Status text—18 characters
- Operating hours
- Service intervals
- Time program name—18 characters
- Day program name—18 characters
- Alarms with date and time
- Alarm explanatory text—18 characters

Simple key functions

The eight clearly marked, soft-touch keys on the keypad use symbols instead of key names to permit easy, convenient operation in an international environment:

- Plus Key**—Increases the value of the selected input field (for example, setpoint). This key is also used for reversing a digital status (0/1).
- Minus Key**—Reduces the value of the selected input field. This key is also used for reversing a digital status (0/1).
- Enter Key**—Selects instructions or function from the menu. This key is also used for identifying modifiable fields and for confirming the change.

Cancel Key—Interrupts an operating procedure and escapes back to the higher level menu.

The four arrow keys are used to move the cursor around the display:

Down Arrow—Moves the cursor to the next interactive field on the next line.

Up Arrow—Moves the cursor to the previous interactive field on the previous line.

Right Arrow—Moves the cursor to the next interactive field on the current line. When the cursor reaches the end of the line it jumps to the first interactive field on the next line.

Left Arrow—Moves the cursor to the previous interactive field on the current line. When the cursor reaches the beginning of the line it jumps to the last interactive field on the previous line.

The operator terminal also includes a knob to adjust the screen's contrast.

Password protected operation

Password protection ensures that only authorized persons have access to system data. Protection is provided by a predetermined set of values which ensure durable, trouble-free system operation. These devices can be operated at three levels, with password-protection for two:

- Operator Level 1: Read data only without a password (such as current status)
- Operator Level 2: Read with limited change capability with a password (create time programs)
- Operator Level 3: Read with unlimited change capability with a password

Alarm handling capability

The alarm handling capability of the XI581AH and XI582AH Operator Terminals offers complete system integrity. The alarm signals generated can alert the operator to either scheduled maintenance work that is due (low priority alarm), or identify a system component failure (high priority alarm). Alarm priority and personalized alarm text which has been determined in the data point description, helps operators distinguish between the types of alarms generated.

Current Alarm Signal:

A current alarm signal appears in the display on both devices. It includes the point address, alarm text, date, time plus the value with its engineering unit (analog point or totalizer) and the status text (digital point) respectively.

Press the cancel key to clear the alarm display and return to the normal operating sequence which was over-written by the alarm. Should a further alarm occur, the new alarm signal overwrites the previous display.

Current Alarm Display

!! Alarm message !!	
16. 04. 1990	13 : 36 :27
Sauna Room temp.	
95.0 °C	
Max 2 reached	
Limit	

Alarm Description:

Operators are also allowed to view all data points for which the limit value (analog point) or the alarm status (digital point) is currently exceeded.

To view the user address and the accompanying alarm information on the terminal, select a specific alarm with the arrow keys and confirm the selection using the Enter key.

Alarm Description

Alarms	:	point in alarm
Exhaust fan		
Kitchen Room temp.		
Window contact 17		
Bath Room temp.		
Htg. zone pump 1		

Alarm History:

The XI581AH and XI582AH Operator Terminals also allow access to the alarm history stored in the Excel controller. The last 99 alarms are listed with date, time, and user address.

To view all alarm information for a specific alarm, select the alarm with the arrow keys and confirm the selection using the Enter key.

Alarm History Listing

Alarm History		
19. 03. 90	16 : 35	Exhaust fan
19. 03. 90	06 : 26	Kitchen Room temp.
18. 03. 90	23 : 57	Window contact 17
18. 03. 90	16 : 07	Bath Room temp.
17. 03. 90	20 : 17	Htg. zone pump 1

SPECIFICATIONS

Models:

Operator Terminals:

- XI581AH
- XI582AH

Cables with remote operator interface plug for XI582AH:

- XW565, 16.4 ft. (5 m)
- XW566, 49.2 ft. (15 m)

Mounting Options:

XI581AH — Controller Mounted: Directly on the front cover of the Excel 500 and 600 Controller unit housing
 XI582AH — Desktop or Wall Mounted: Up to 49 ft. (15 m) away

Distances up to 3281 ft. (1000 m) between the Operator Terminal and the controller can be achieved by using line drivers. Both operator terminals connect to Excel 80B, 100B, 500, and 600 Controllers and the Excel Link via an RS-232 interface connection.

Dimensions:

XI582AH — Control Panel:
 Width: 7.68 in. (192 mm)
 Height: 5.67 in. (144 mm)
 Depth: 1.24 in. (31 mm)

Environmental Limits:

Temperature:
 Operating: 32 to 158F (0 to 50C)
 Storage: -40 to 158F (-40 to 70C)
 Relative Humidity: 5 to 95% rh noncondensing

Input Power:

5V dc +10%, -10% (supplied by controller)

Program Back-up During Power Failure:

1 month for RAM

Agency Listing:

Underwriters Laboratories (UL) Listed per UL Standard 916 (applied)
 Complies with FCC Part 15, Subpart J for Class A equipment
 Canadian Standards Association

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