

Models 551, 552, 1041 Operator Interface

Specification

UMC OPERATOR INTERFACE OVERVIEW

The UMC Operator Interface (O/I) (Figure 2) provides a graphic LCD display and a monoplaner keyboard to allow operator access to all controller functions. The operator interface is available in these models:

- 5.5" Type 12 display (model 551)
- 5.5" Type 4X display (model 552)
- 10.4" display Type 4X (model 1041)

The operator interface becomes operational once a valid database is configured in the controller.

Modification and customization of the operator interface is performed using UMC Control Builder software. With the software, data points can be identified (tagged) using eight character names.

Once named, these data points may be accessed by the operator interface using a standard set of display formats and a predefined menu hierarchy.

Customized display access and the assignment of selected display screens to keyboard buttons may be developed using Control Builder software. Selected screens such as bargraphs, trends, and overview displays will require the user to specify the individual data points to be represented on the screen.

A menu selection allows the user to select from English, French, Italian, Spanish or German languages.

A 3.5" floppy disk drive (optional on models 551 and 552, standard on model 1041) and process data archiving feature is available to record analog values, alarm actions, and digital events. Data storage parameters are established for the operator interface using Control Builder Configuration Software or User Utility Software.

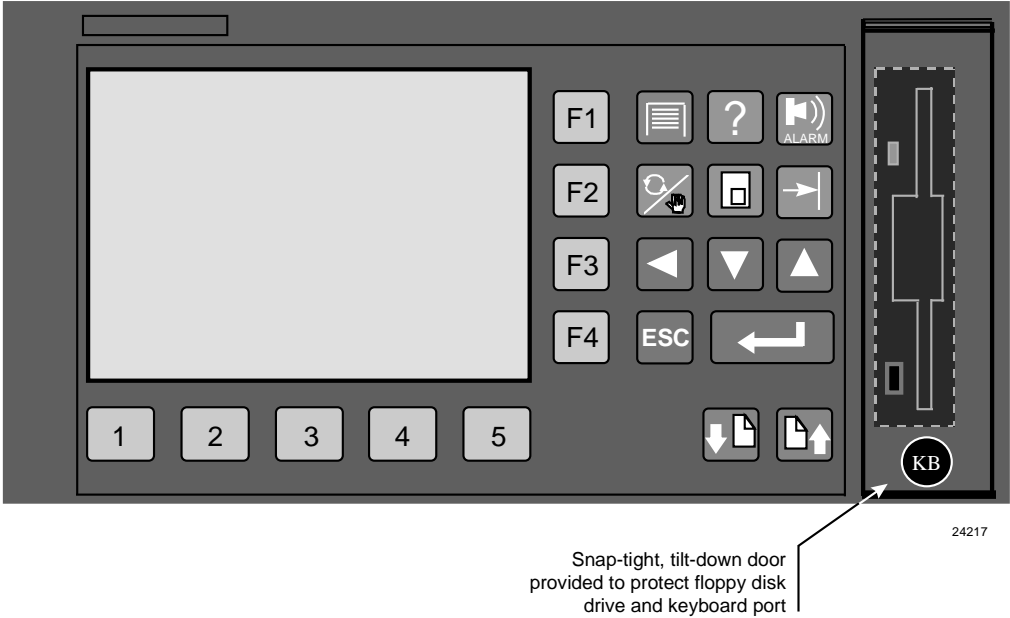
Archived data files require Honeywell Software for Data Analysis (SDA) to view and analyze records. Conversion of archived files from a Honeywell compressed data format to other formats, such as Data Interchange Format (DIF) or Comma Separated Variable (CSV), also requires SDA software.

The storage device is available to archive process data, store and transfer controller and operator interface configurations, setpoint programs, and recipes.

The optional floppy drive is located at the right front of the Type 12 operator interface (model 551) and at the rear of the Type 4X operator interface (model 552). Model 1041 comes standard with the 3.5" floppy drive or an optional Zip disk drive for extended data archiving.

A QWERTY keyboard connector on the 551 and 1041 provides an alternate data entry method to the standard panel keys.

MODEL 551: Type 12 OPERATOR INTERFACE



MODEL 552: Type 4X OPERATOR INTERFACE

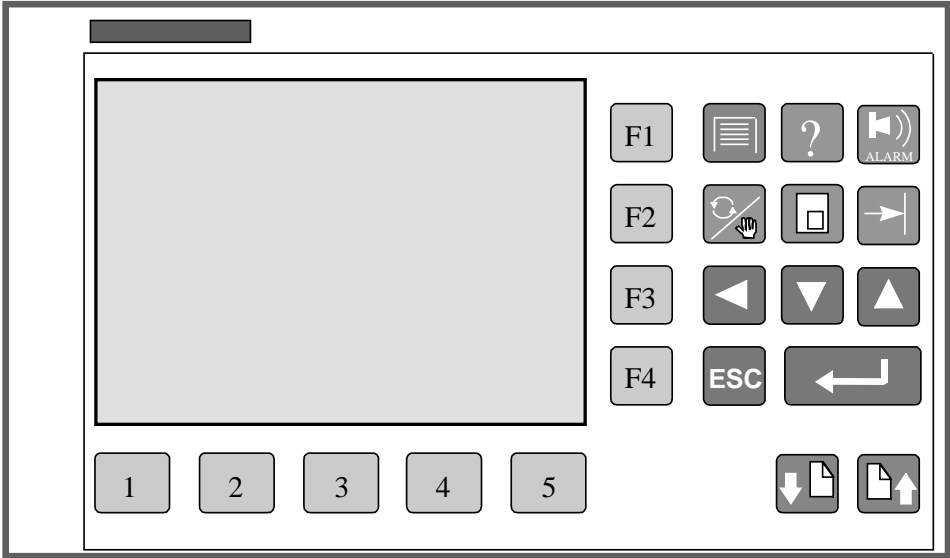


Figure 1—UMC 551 and 552 Operator Interface

MODEL 1041: Type 4X OPERATOR INTERFACE

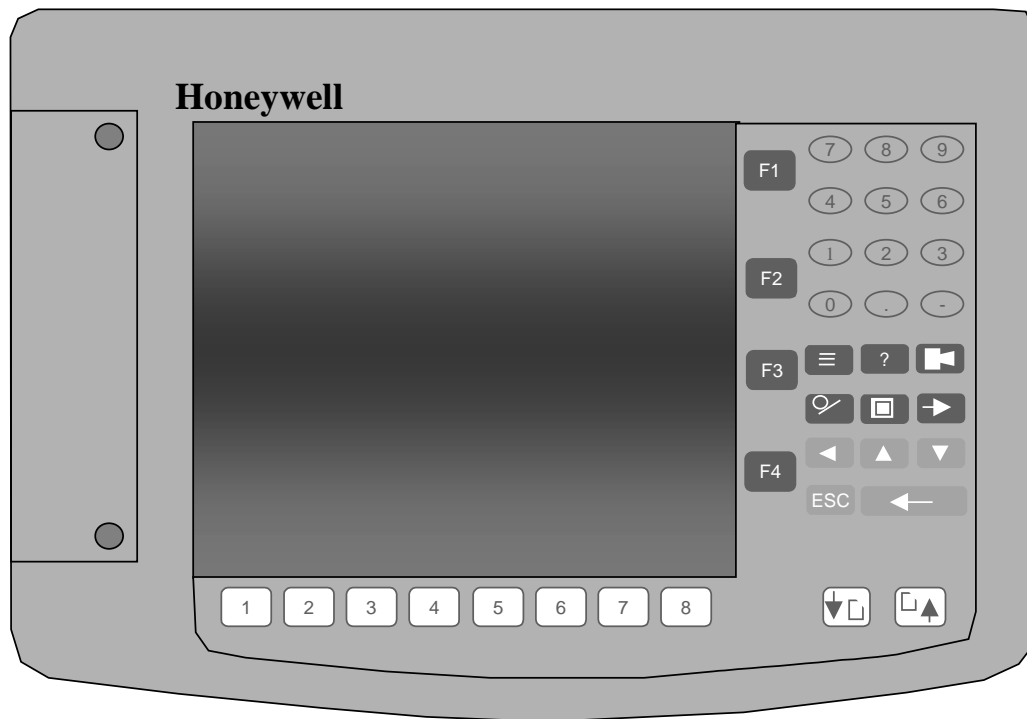


Figure 2—UMC 1041 Operator Interface

TABLE 1 – Operator Interface Keyboard Functions












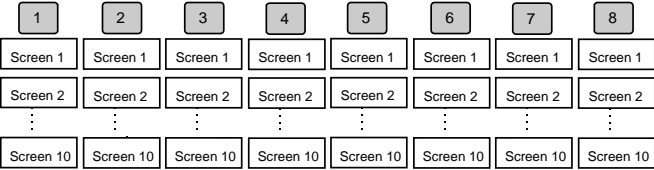
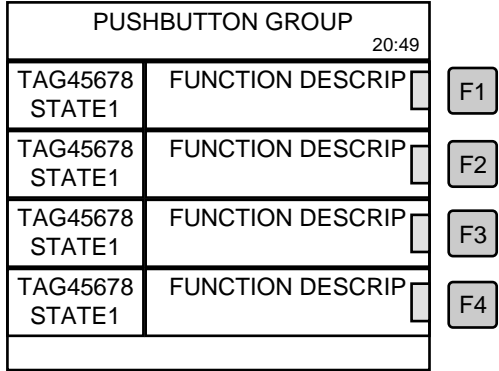
Key	Description
	Digit Select, Increment, and Decrement keys change analog values and to toggle between ON and OFF states of digital parameters.
	Enter key enters a value, selects a menu item, or selects a parameter to be altered.
	Escape key cancels an entry, exits a menu, or aborts an operation.
	Auto/Manual key changes the operating mode of control loops between automatic and manual.
	Detail key navigates vertically on selected display fields for detail access, data entry or monitoring.
	Tab key navigates within a screen to select specific values to be changed or selects access points to associated screens to the screen being displayed.
	Number keys let you enter numerical data. Model 1041 only.
	Main Menu key accesses the main menu of functions in the controller.
	Help key accesses user-defined help screens for process operation.
	Alarm Access/Acknowledge key displays active alarm information and acknowledges active alarms.
	Page Up and Page Down keys sequence through multiple pages of specific screen types.
	The screen access keys (5 on 551 and 552; 8 on 1041) are configured by the user with configuration software (Control Builder). Each screen access button can be configured with up to ten screens in a screen group. The keys contain key legends 1 through 5 or 8 on a plastic insert. This insert can be removed and replaced with application-specific legends that identify the specific screen group assigned to each key. The Page Up and Page Down keys are used to page through the screens assigned to each key after first selection.
	<p>Pushbuttons F1 through F4—The Pushbutton display is directly associated with a pushbutton function block. Pushbuttons F1 through F4 cause a single pulse output of the output pin of the associated function block.</p> <p>A digital status indication is available for each button. This indication may be assigned to a digital element in the program by the user during configuration to indicate the ON and OFF state confirmation of the digital action being controlled by the button.</p> <p>Up to 4 screens (16 digital tags) may be configured, assigned to any screen access key.</p>

TABLE 1 – Operator Interface Keyboard Functions (continued)

Key	Description																				
<table><tr><td colspan="3">FOUR SELECTOR GROUP</td><td>20:4</td></tr><tr><td>FUNCTION</td><td>STATE</td><td>F1</td><td>F1</td></tr><tr><td>FUNCTION</td><td>STATE</td><td>F2</td><td>F2</td></tr><tr><td>FUNCTION</td><td>STATE</td><td>F3</td><td>F3</td></tr><tr><td>FUNCTION</td><td>STATE</td><td>F4</td><td>F4</td></tr></table>	FOUR SELECTOR GROUP			20:4	FUNCTION	STATE	F1	F1	FUNCTION	STATE	F2	F2	FUNCTION	STATE	F3	F3	FUNCTION	STATE	F4	F4	<p>The Four Selector Switch Group display is directly associated with a Four Selector Switch Function block. Pressing buttons F1 through F4 calls up a dialog box to allow changes to the output selection for the associated block.</p> <p>Each button supports up to 4 state outputs. Only one state output can be selected at a time. Selecting one state (ON output) turns OFF the other 3 state outputs.</p> <p>Up to 4 Four Selector switches may be configured.</p>
FOUR SELECTOR GROUP			20:4																		
FUNCTION	STATE	F1	F1																		
FUNCTION	STATE	F2	F2																		
FUNCTION	STATE	F3	F3																		
FUNCTION	STATE	F4	F4																		
<table><tr><th colspan="3">HAND/OFF/AUTO SWITCH</th></tr><tr><td>SIGTAG_A STATE1</td><td>HOATAG1 AUTO</td><td>F1</td></tr><tr><td>SIGTAG_B STATE8</td><td>HOATAG2 AUTO</td><td>F2</td></tr><tr><td>SIGTAG_C STATE2</td><td>HOATAG3 HAND</td><td>F3</td></tr><tr><td>SIGTAG_D STATE7</td><td>HOATAG4 OFF</td><td>F4</td></tr></table>	HAND/OFF/AUTO SWITCH			SIGTAG_A STATE1	HOATAG1 AUTO	F1	SIGTAG_B STATE8	HOATAG2 AUTO	F2	SIGTAG_C STATE2	HOATAG3 HAND	F3	SIGTAG_D STATE7	HOATAG4 OFF	F4	<p>The Hand/Off/Auto Switch Group display is directly associated with the Hand/Off/Auto Switch function block.</p> <p>Pressing buttons F1 through F4 calls up a dialog box to allow changes to the output selection for the associated block.</p> <p>Each button supports one function block and its dialog box displays current state and allows Hand/Off/Auto output to be selected.</p> <p>Up to 16 HOA blocks may be configured.</p>					
HAND/OFF/AUTO SWITCH																					
SIGTAG_A STATE1	HOATAG1 AUTO	F1																			
SIGTAG_B STATE8	HOATAG2 AUTO	F2																			
SIGTAG_C STATE2	HOATAG3 HAND	F3																			
SIGTAG_D STATE7	HOATAG4 OFF	F4																			
<table><tr><th colspan="4">DEVICE CONTROL</th></tr><tr><td>DEVTAG1</td><td>READY</td><td>99999 SECS</td><td>F1</td></tr><tr><td>DEVTAG2</td><td>DISABLED</td><td>99999 SECS</td><td>F2</td></tr><tr><td>DEVTAG3</td><td>RUNNING</td><td>99999 SECS</td><td>F3</td></tr><tr><td>DEVTAG4</td><td>READY</td><td>99999 SECS</td><td>F4</td></tr></table>	DEVICE CONTROL				DEVTAG1	READY	99999 SECS	F1	DEVTAG2	DISABLED	99999 SECS	F2	DEVTAG3	RUNNING	99999 SECS	F3	DEVTAG4	READY	99999 SECS	F4	<p>The Device Control Display Group display is directly associated with the Device Control function block.</p> <p>Pressing F1 through F4 calls up a display box to allow changes to the associated block</p> <p>Each button supports one function block and its dialog box allows delay times to be entered.</p> <p>Up to 16 Device Control blocks may be configured.</p>
DEVICE CONTROL																					
DEVTAG1	READY	99999 SECS	F1																		
DEVTAG2	DISABLED	99999 SECS	F2																		
DEVTAG3	RUNNING	99999 SECS	F3																		
DEVTAG4	READY	99999 SECS	F4																		

Screens

The following are examples of typical display screens included in the operator interface.

Menus and Overview Screens

MAIN MENU	MAY06 11:30
RECIPES	
SP PROGRAMMERS	
SP SCHEDULER	
LOOPS	
ALARMS / EVENTS / DIAGS	
VARIABLES	
UNIT SETUP	
DISK UTILITIES	
DATA STORAGE	
LOG OFF	

Main Menu Display

UNIT SETUP
CONTROLLER STATUS
SET MODE
SET TIME AND DATE
SET SECURITY
FILE NAME SELECTION
SELF-TESTS
CALIBRATE AI
CALIBRATE AO

Unit Display

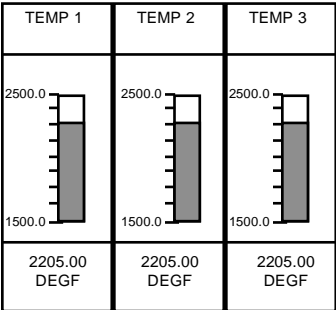
OVERVIEW GROUP 1	
TAGNAME1	0.00 DEGF
TAGNAME2	1000.00 DEGF
TAGNAME3	0.00 DEGF
TAGNAME4	ON
TAGNAME5	OFF
TAGNAME6	0.00 DEGF
TAGNAME7	0.00 DEGF
TAGNAME8	0.00 DEGF
TAGNAME9	0.00 DEGF
TAGNAME10	0.00 DEGF
TAGNAME11	0.00 DEGF
TAGNAME12	0.00 DEGF

Overview Display

Analog Data Viewing Screens

PANEL GROUP 1		11:30
TAGNAME1	2205.0	DEGF
TAGNAME2	2000.0	DEGF
TAGNAME3	ON	
TAGNAME4	205.0	DEGF
TAGNAME5	OFF	
TAGNAME6	83.5	DEGF
TAGNAME7	ON	

Multipoint Panel Display

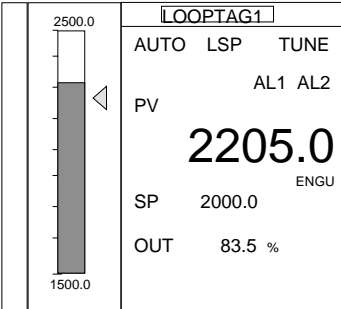


Vertical Bars Display

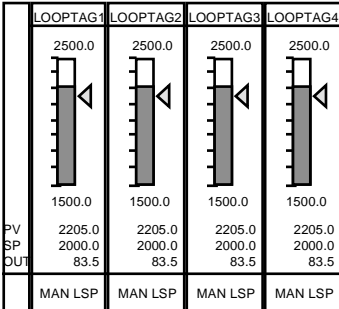
FURNACE TEMP	MAY06 11:30
TIC101 1500.0 DEGF	

Single Point Panel Display

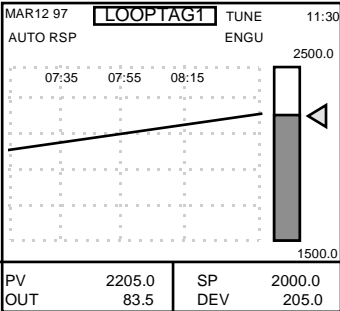
Control Loop Screens



Single Loop Numeric Display



Multi-loop Bar Display



Tuning Trend Display

Setpoint Programs and Recipes Screens

SP PROGRAMMER SPTAG1 11:30			
LABEL678			
STATE	PROF	SEG	RAMP
RUN	# 3	# 2	
PRIMARY		AUXLABEL	
ENGU	ENGU		
PV	1450.0	31.0	
SP	1449.0	31.1	
SEG TIME REM 01:30:00			
PGM ELAPSED TIME 00:00:00			
LOAD			
MORE COMMANDS			

SPP Overview Display (1 Programmer)

LABEL123 SCHED 10 SPTAG1 11:30			
STATE	SEG	RECYCLES	REMAIN
RUN	# 2	100	
SEG REM 0000:00:00 TOTL 0000:00:00			
SP		PV	
SP1 SPLABEL1	1234567.8	1234567.8	ENGU
SP2 SPLABEL2	1234567.8	1234567.8	ENGU
SP3 SPLABEL3	1234567.8	1234567.8	ENGU
SP4 SPLABEL4	1234567.8	1234567.8	ENGU
SP5 SPLABEL5	1234567.8	1234567.8	ENGU
SP6 SPLABEL6	1234567.8	1234567.8	ENGU
SP7 SPLABEL7	1234567.8	1234567.8	ENGU
SP8 SPLABEL8	1234567.8	1234567.8	ENGU
LOAD			
MORE COMMANDS			

SPP Edit Segment Events Display

EDIT RECIPE 1	
PAGE 1 OF 5	RECNAME1
TAGNAME1	= 0.00 DEGF
TAGNAME2	= 1000.00 DEGF
TAGNAME3	= 0.00 DEGF
TAGNAME4	= ON
TAGNAME5	= OFF
TAGNAME6	= 0.00 DEGF
TAGNAME7	= 0.00 DEGF
TAGNAME8	= 0.00 DEGF
TAGNAME9	= 0.00 DEGF
TAGNAME10	= 0.00 DEGF

Edit Recipe Display

Other Screens

ALARM GROUP 1 11:30		
TAG5678 STATE1	TAG5678 STATE2	TAG5678 STATE1
TAG5678 STATE2	TAG5678 STATE1	TAG5678 STATE1
TAG5678 STATE1	TAG5678 STATE1	TAG5678 STATE1
TAG5678 STATE1	TAG5678 STATE1	TAG5678 STATE1

Alarm Group Display

YOUR NAME	
HERE	
SUPPORTING TEXT LINE 1	
SUPPORTING TEXT LINE 2	
SUPPORTING TEXT LINE 3	
SUPPORTING TEXT LINE 4	

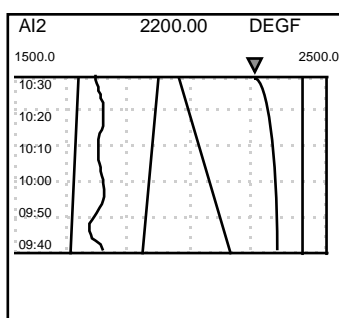
Start-up Display

MESSAGES
START-UP NOTES:
USE RECIPE #1 AFTER SHUTDOWN.
CHANGE SETPT TO 450.
SHUT OFF PUMP#1.
TURN ON WATER VALVE.
RESET LIMIT CONTROL.
VERIFY WATER LEVEL ON TANK#1.

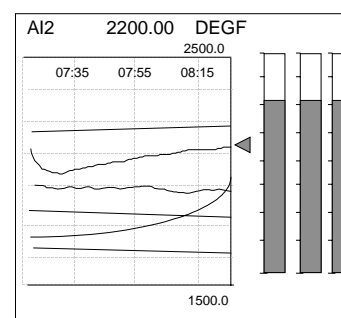
Text Messages Display

PANEL METER TITLE		
TAG45678 STATE1	TAG45678 1234.56	TAG45678 STATE2
TAG45678 1234.56	TAG45678 STATE2	TAG45678 1234.56
TAG45678 STATE2	TAG45678 STATE1	TAG45678 STATE1
TAG45678 1234.56	TAG45678 1234.56	TAG45678 1234.56

Panel Meter Group Display

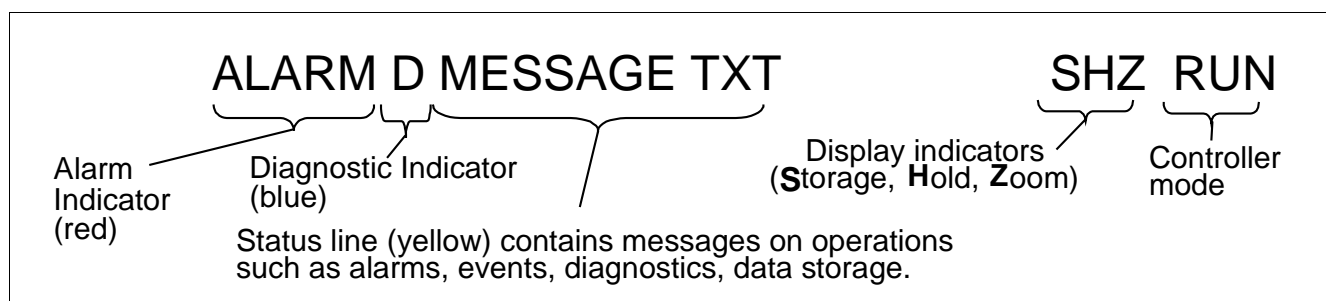


Vertical Trend Display



Horizontal Trend w/Bar Display

Each display of the operator interface has a reserved area at the bottom to indicate status information. The indications are as follows:



Screen Access

The operator interface has five pushbutton types to access display screens. These are:

- **User-defined screen buttons 1 through 5 (Models 551/552) or 1 through 8 (Model 1041)**—Each user-defined screen button supports a sequence of up to ten screens. Screens assigned to these buttons may be Monitor Screens (view data only) or Operate Screens (take actions). The type of screen and the data presented on the screen is defined by the user during configuration.
- **Menu button**—This button provides access to the menu items needed

to set up, tune, manage, and maintain the system.

- **Pushbutton group and Four Selector group F1 through F4**—These buttons provide input to discrete actions.
- **“?” user-defined help**—This button provides access to up to ten user text screens. These screens may include user notes, instructions, or other information defined by the user.
- **Alarm view/acknowledge**—This button is used to access alarm group screens and acknowledge alarms.

Table 5 provides a summary of available display screens.

Trend Displays

This feature allows real-time trending of up to 24 tagged values assigned to 4 screens of up to 6 trend points each, analog or digital. Each trend point has its own color and engineering unit range. The time range may be 0.5 hr. to 24 hr./screen. The trend tools include zoom and scrolling back in time to extend the time range from 1.5 to 5 times dependent on the number of points per screen, and cursor panning to view actual digital values at a specific point.

TABLE 2 – Summary of Operator Interface Display Screens

Button	Display Type	Description
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Monitor Analog or Digital	<p>User assigns data to predefined locations within each screen format.</p> <ul style="list-style-type: none"> • <i>Single Point Panel Screen</i> provides a single point alphanumeric readout that consists of the tag and current value. The display sequences through a list of up to 12 analog or digital signals. Up to 2 groups can be configured. • <i>Bargraph Screen</i> provides graphic representation of multiple analog or digital points using horizontal or vertical bargraph orientation. Bargraph screens are available in 3-point and 6-point format. (Up to 4 groups maximum) • <i>Trend Graph Screen</i> has four types available: horizontal, vertical, horizontal with bars, horizontal with digital values. Up to six analog or digital points may be included on each trend graph. Scrolling moves the trend graph backward or forward in time. Up to 4 screens can be configured for a total of 24 trend points. • <i>Multipoint Panel Screen</i> presents the current value/state for up to seven analog or digital tagged points in the controller. Up to 4 groups can be configured. • <i>Panel Meter Screen</i> presents a 3-row by 4-column array of analog values and digital statuses similar to an annunciator panel format. Up to 10 panel groups can be defined.
N/A	Other	<ul style="list-style-type: none"> • <i>Start-up Screen</i> contains user-specified text and is the first screen displayed during start-up. Not available during normal operation.
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Operate Screens Loops	<ul style="list-style-type: none"> • <i>Single Loop Numeric Screen</i> provides an overview of a single control loop in alphanumeric form. • <i>Eight Loop Bar Screen</i> provides an overview of loops 1-8 or 9-16. Model 1041 only. Models 551 and 552 only. • <i>Multi-loop Bar Screen</i> provides an overview of two, three, or four control loops as traditional loop faceplates. • <i>Single Loop Trend</i> provides an overview of a single control loop in alphanumeric form with a trend of the controlled variable. • <i>Eight-loop Summary Screen</i> provides an overview of eight control loops in tabular form. Models 551 and 552 only. • <i>Sixteen-loop Summary Screen</i> provides an overview of 16 control loops in tabular form. Model 1041 only. • <i>Loop Control Screen</i> provides access to setpoint source selection and tuning parameters. This screen may be accessed from any loop operate screen. All control loop screens allow Auto/Manual selection, setpoint, and output adjustments. Remote/local SP selection and other specific loop parameters are available through menu-selected screens.

TABLE 2 – Summary of Operator Interface Display Screens (continued)

Button	Display Type	Description
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Overview	<ul style="list-style-type: none"> <i>Overview Screen</i> presents the current status/state for up to twelve analog or digital tagged points. Allows editing variables within the group. Up to 20 groups may be configured.
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Operate Screens Setpoint Program	<ul style="list-style-type: none"> <i>Setpoint Program Overview Screen</i> presents data in tabular format for a setpoint profile. Provides operational control of the profile. <i>Setpoint Program – Events Screen</i> provides view of segment event data. Models 551, 552 only. <i>Setpoint Program Details Screen</i> provides a view of program details. The operator can edit, load, and save setpoint programs.
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Operate Screens Setpoint Scheduler	<ul style="list-style-type: none"> Master Setpoint Scheduler Screen presents data in tabular format for up to 8 setpoint outputs and associated controlled variables. Scheduler Auxiliary setpoints and events are accessed from the master scheduler display. The operator can edit, load and save setpoint schedules.
1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Digital Start/Stop and Status (F1–F4)	<ul style="list-style-type: none"> <i>Pushbutton Function Screen</i> provides the interface to the four logic operator keypad keys (F1 through F4). Four screens maximum.
Alarm	Alarms	<ul style="list-style-type: none"> <i>Alarm Group Screen</i> provides a list of alarm groups and conditions.
?	User Notes	<ul style="list-style-type: none"> User-entered text screens.
Menu	Alarms/Events/ Diagnostics	<ul style="list-style-type: none"> Access Alarm summary. Access Alarm groups. Access Event summary. Access Diagnostic summary. Access I/O module diagnostics.
Menu 1 to 5 (Models 551/552) 1 to 8 (Model 1041)	Recipes	<ul style="list-style-type: none"> Allows selection and loading of recipes.
Menu	Loops	<ul style="list-style-type: none"> <i>Loop Trend Screen</i> provides an overview of a single control loop for viewing loop tuning performance in a combination of a 5-minute span trend graph and alphanumeric format. <i>Loop Control Setup Screen</i> presents detailed data for the control loop selected from a Loop Summary screen. The operator can edit selected loop parameters from this screen. <i>Loop Tuning Screen</i> allows the user to set up and start the loop tuning function. <i>Autotune screen</i> provides access to autotune enable settings. <i>Loop Alarms</i> screen provides access to loop alarm setpoints. <i>Limits</i> screen allows access to setpoint, PV, and output limits.
Menu	Setpoint Programmers	<ul style="list-style-type: none"> Provides access to setpoint program segment and event edit screens and saving program to a profile number.
Menu	Setpoint Scheduler	<ul style="list-style-type: none"> Provides access to setpoint schedule segment and event edit screens and saving schedules.

TABLE 2 – Summary of Operator Interface Display Screens (continued)

Menu	Unit Setup	<ul style="list-style-type: none"> • Selections under this menu support controller status indications, unit setup functions, engineer and operator security, calibration, file name assignments, and self-test routines.
Menu	Disk Utilities	<ul style="list-style-type: none"> • Selections under this menu support disk formatting and file management.
Menu	Data Storage	<ul style="list-style-type: none"> • View storage status • View storage settings • Storage controls • Initialize storage disk • Load storage settings • Store storage settings
Menu	Log Off	<ul style="list-style-type: none"> • Allows the user to disable the operator interface operation until activated by security code entry.

Operator Interface Specifications

Specifications apply to all models unless listed under a specific model.			
	Model 551	Model 552	Model 1041
Display			
Type	Passive Color LCD		TFT Active Matrix Color LCD
Number of Pixels	320 x 240 pixels (1/4 VGA)		640 x 480 (Std VGA)
Viewing Area (Width x Height)	119 mm x 90 mm 4.7 inches x 3.5 inches		211 mm x 158 mm 8.3 inches x 6.2 inches
Performance	Screen Update Rate: 1.0 seconds Average Data Entry Response Time: 1.5 seconds Average Screen Call-up Time: 1.5 seconds		
User Input	Front panel membrane keypad. 22 keys. Front accessible AT keyboard port (keyboard not included)	Front panel membrane keypad. 22 keys. Front or rear accessible AT keyboard port (keyboard not included)	Front panel membrane keypad. 37 keys. Rear accessible AT keyboard port (keyboard not included)
Enclosure Rating	DIN compatible panel mounted Type 12.	Type 4X Panel Mounted indoor only	Type 4X Panel Mounted
Dimensions			
Depth behind panel	136 mm 5.4 inches	136 mm 5.4 inches	183 mm 7.2 inches
Front face dimensions (Width x Height x Depth)	289 mm x 144 mm x 48mm 11.3 inches x 5.7 inches x 1.9 inches	240 mm x 159 mm x 4 mm 9.4 inches x 6.25 inches x 0.15 inches	400 mm x 248 mm x 27 mm 15.8 inches x 9.8 inches x 1.1 inches
Rear dimensions (Width x Height x Depth)	269 mm x 131 mm x 136 mm 10.6 inches x 5.2 inches x 5.4 inches	254 mm (door open) x 131 mm x 148 mm 10.0 inches (door open) x 5.2 inches x 5.8 inches	403 mm x 233 mm x 183 mm 15.9 inches x 9.2 inches x 7.2 inches Dimensions include mounting brackets
Panel cutout (Width x height)	269.9 ± 0.8 mm x 131.8 ± 0.8 mm 10.63 ± .03 inches x 5.19 ± .03 inches	213.4 ± 0.8 mm x 101.6 ± 0.8 mm 8.4 ± .03 inches x 4.0 ± .03 inches	377 ± 0.8 mm x 207 ± 0.8 mm 14.9 ± 0.03 inches x 8.2 ± .03 inches
Connection to controller			
Physical link	RS422, 15 conductor, shielded with power		
Terminations	Controller: 15-pin "D" connector Operator Interface: screw type terminal strip		
Maximum distance between controller and operator interface	15 meters (50 feet) when operator interface is powered from the controller 601 meters (2000 feet) available with external RS485-to-RS485 isolator and external 24 power supply.		

Operator Interface Specifications

Specifications apply to all models unless listed under a specific model.			
	Model 551	Model 552	Model 1041
Power	Standard: power supplied by controller Optional: external 24 Vdc +/- 10% @ 1.3 amp		
Weight	6.25 lbs.	6 lbs.	11.72 lbs.
Approvals and Safety Protection	CE Conformity EN61010-1 Installation Category II Pollution Degree 2 UL1092 (draft)/UL916 CSA C22.2 No. 1010-1 Planned: FM Class I, Div. 2 Groups A, B, C, D EN61326	CE Conformity EN61010-1 Installation Category II Pollution Degree 2 UL1092 (draft)/UL916 CSA C22.2 No. 1010-1 Planned: FM Class I, Div. 2 Groups A, B, C, D EN61326	Planned: CE Conformity EN61010-1 Installation Category II Pollution Degree 2 UL3121-1 CSA C22.2 No. 1010-1 FM Class I, Div. 2 Groups A, B, C, D EN61326
Language	English (as shipped), French, Italian, Spanish, German - user selectable via menu.		
Security	A user-specified numerical code that provides secured access to parameter groups. Log-off security is also available to allow disabling all operator keys except those needed to log on with a security code.		
Environmental Conditions			
Ambient Operating Temperature	32°F to 122°F 0°C to 50°C	32°F to 122°F 0°C to 50°C	32°F to 113°F 0°C to 45°C
Ambient Storage Temperature	-4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C	-4°F to 140°F -20°C to 60°C
Ambient Operating Relative Humidity	10 to 90% RH non-condensing	10 to 90% RH non-condensing	20 to 80% RH non-condensing
Ambient Storage Relative Humidity	5 to 95% RH non-condensing	5 to 95% RH non-condensing	5 to 90% RH non-condensing
Data Archiving			
Media	3.5 inch 1.44MB floppy	3.5 inch 1.44MB floppy	3.5 inch 1.44MB floppy or 100 MB Zip
Data Types	Tagged analog and digital parameters, alarms and events		
Trends	Number of Files: 2 maximum Points per Trend: 12 maximum, analog or digital Modes: Off, batch, continuous Rates: 2, 5, 10, 20, 30, 40, 50 seconds 1, 2, 5, 10, 20, 30 minutes External Control: Digital tagged signal—start/stop storage to both trend files		
Point Log	Number of Files: 1 Points per File: 12 points maximum, analog or digital points Modes: Off, Batch, Continuous, On Command Sample Rates: 1 to 60 minute samples, one minute increments 1-24 hours, one hour increments 1 month—same day of each month Number of Records: 2000 per file (up to 12 points per record) External Control: Digital tagged signal—start/stop storage to file Digital tagged signal—on-demand sampling		
Alarms	Number of Files: 1 Records per File: 150 maximum, time/date, On and Off Storage Modes: Off, continuous, batch External Control: Digital tagged signal—start/stop storage to file		
Events	Number of Files: 1 Records per File: 150 maximum Storage Modes: Off, continuous, batch External Control: Digital tagged signal—start/stop storage to file		
Circular Files (Roll-over)	File Types: Trends, Point Log, Alarms, Events		

Operator Interface Specifications

Specifications apply to all models unless listed under a specific model.							
	Model 551		Model 552			Model 1041	
File Management	File upload (from controller to diskette) and download (from diskette to controller) of: Setpoint Profiles Setpoint Schedules Recipes Controller Configurations						
Estimated Floppy Disk Capacity with Alarm/Event Storage Active <i>Point log active will reduce time by approximately 12%.</i>	Sample Rates		Estimated Floppy Disk Capacity				
	Number of Trends	Total Number of Points	2 Sec.	10 Sec.	30 Sec.	2 Min.	5 Min.
	1	6	17.2 hours	3.58 days	10.75 days	43 days	107.5 days
		12	9.4 hours	1.95 days	5.86 days	23.45 days	58.62 days
	2	18	6.1 hours	30.3 hours	3.75 days	15.15 days	37.87 days
		24	4.7 hours	23.4 hours	2.93 days	11.7 days	29.25 days
Estimated Zip drive capacity	Sample Rates		Estimated Zip Drive Capacity Per Trend File				
	Number of Trends	Total Number of Points	2 Sec.	10 Sec.	30 Sec.	2 Min.	5 Min.
	1 or 2	6	11.9 days	59.5 days	178 days	714 days	1785 days
		12	6.5 days	32.5 days	97 days	388 days	970 days
	Note: On a Zip drive each trend is allocated 24 megabytes						

Specifications are subject to change without notice.

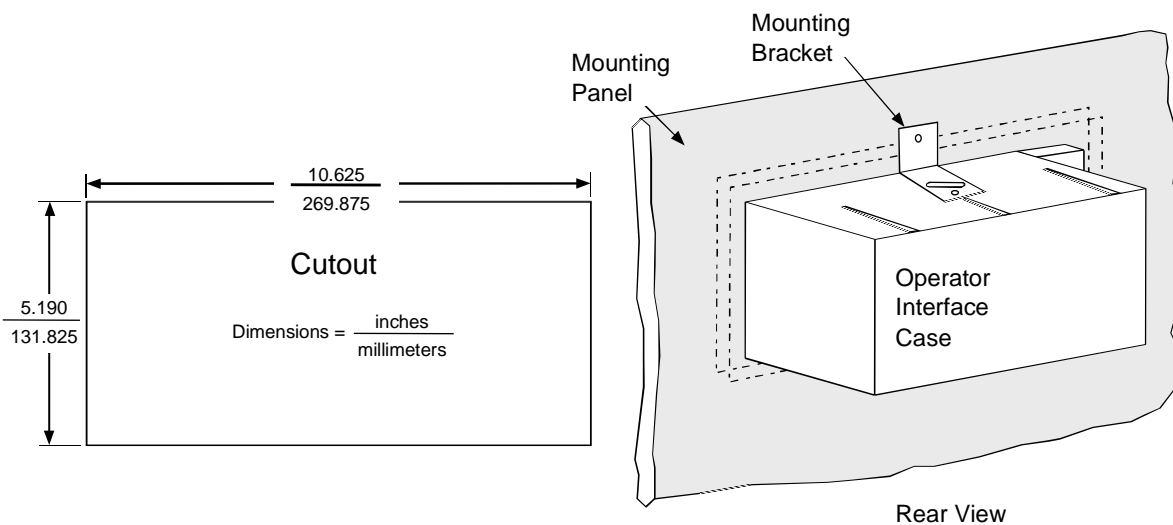


Figure 3—Cutout Dimensions for Operator Interface DIN Panel Mounting, Type 12, Model 551

Dimensions (continued)

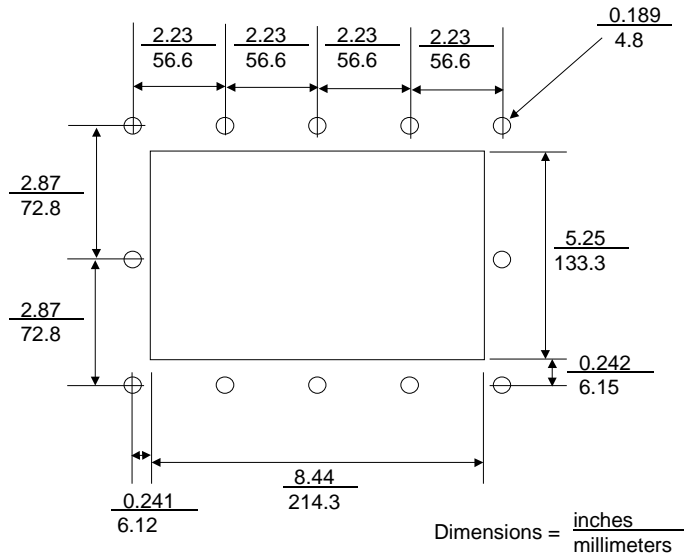


Figure 4—Cutout Dimensions for Operator Interface DIN Panel Mounting, Type 4X, Model 552

Dimensions (continued)

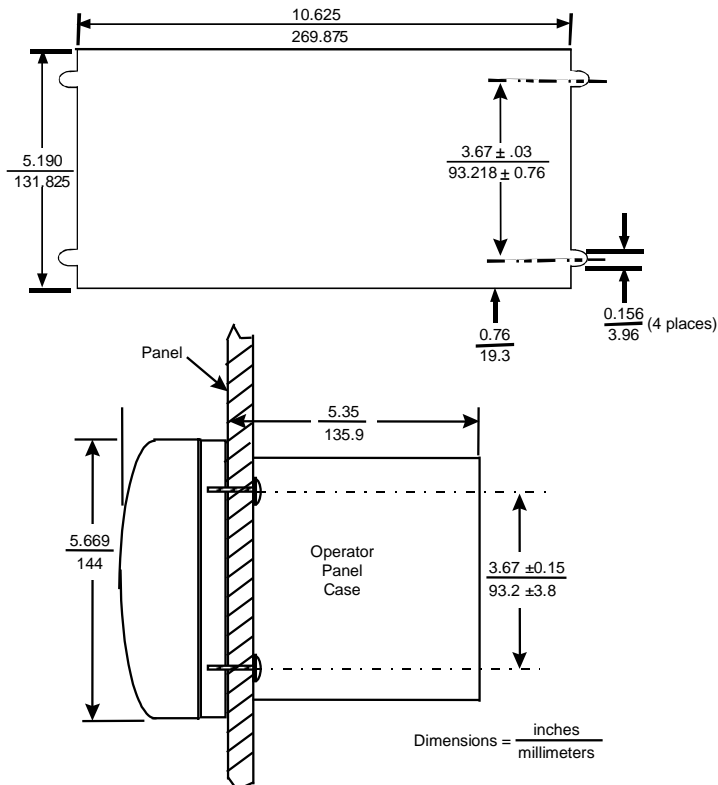


Figure 5—Operator Interface Panel Mounting Dimensions, Type 12, Model 551

Dimensions (continued)

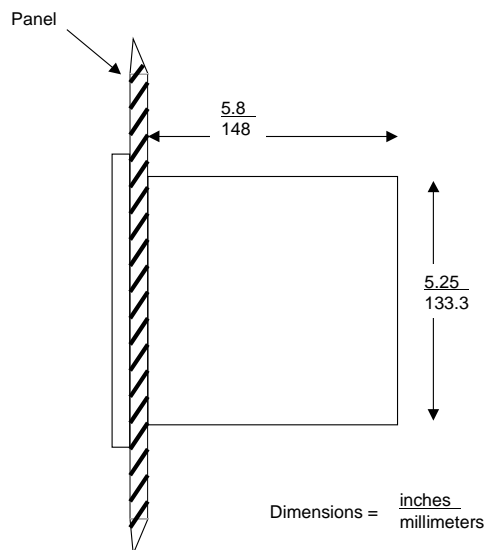


Figure 6—Operator Interface Panel Mounting Dimensions, Type 4X, Model 552

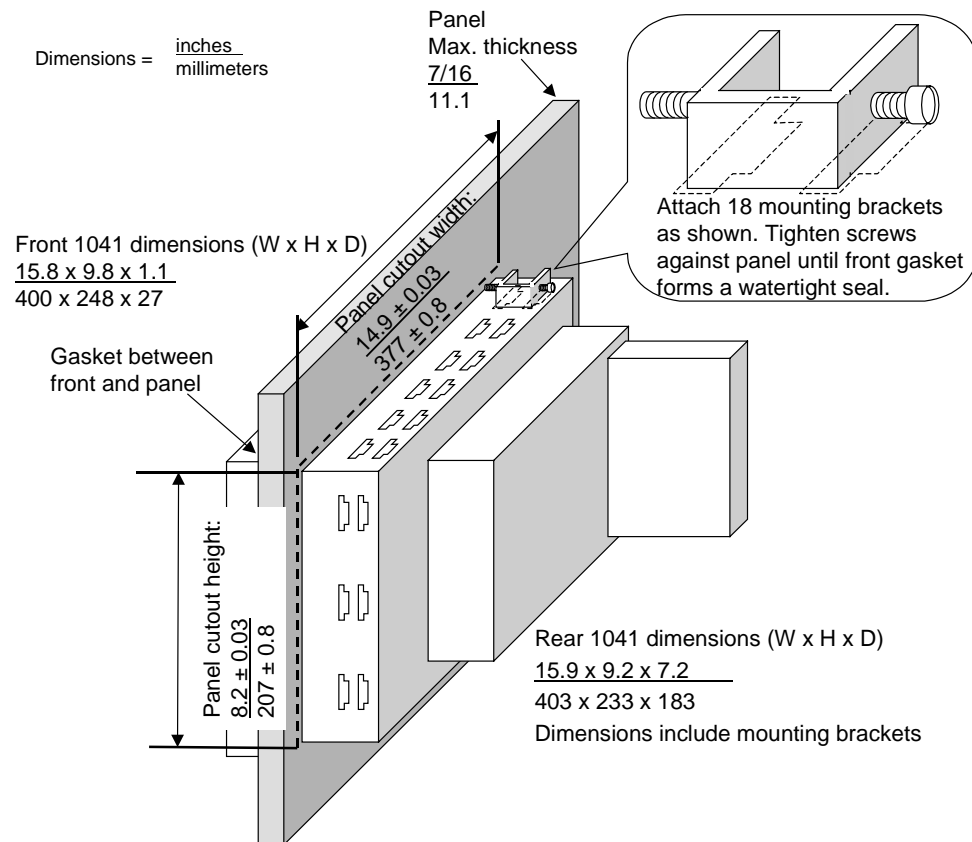


Figure 7—Operator Interface Panel Mounting Dimensions, Model 1041

Warranty/Remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is **in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose**. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Distributor :



For more information, contact Honeywell sales at 1-800-343-0228.

Honeywell

Sensing and Control
Honeywell
11 West Spring Street
Freeport, IL 61032