TS1001 Touch Screen Arming Station User Manual

P/N MAUSER-TS1001 • REV 3.1 • ISS 13JAN25

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N4131

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Contact information

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Important information

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Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

Related manuals

This manual describes how to use the TS1001 Touch Screen Arming Station. Refer also to the *TS1001 Touch Screen Arming Station Installation Manual* for installation details.

The Touch Screen RAS may be used on either a Challenger10 system or a Challenger V8 system. Refer to the appropriate Challenger manual for details about operating the Challenger system.

Care and cleaning instructions

The touch screen display panel (Figure 1 on page 1, item 1) is an LCD module consisting of a glass display panel and a polarizing display surface. The polarizer covering the display surface of the LCD module is soft and easily scratched.

Do not use hard or sharp objects to operate the touch screen: it is designed to be operated by touching the display surface with your fingers (or gloved hands).

If the touch screen is dirty, breathe on it to fog the surface, and then gently wipe the surface with a soft dry cloth.

Caution: Do not use water, ketone, or aromatic solvents to clean the touch screen.

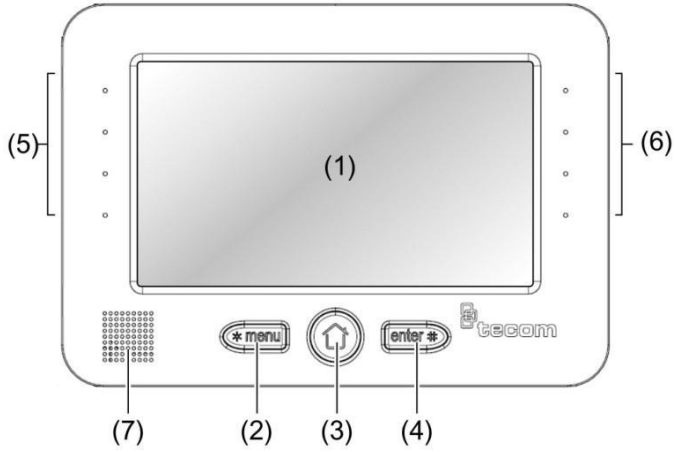
For dirt or marks that are not removed by a soft dry cloth, moisten the cloth with a small amount of either isopropyl alcohol or ethyl alcohol, and then gently wipe the surface.

WARNING: Do not use alcohol near an open flame or other source of ignition.

Product overview

Refer to Figure 1 below for details of external features of the TS1001 Touch Screen Arming Station, and to Figure 2 on page 3 for details displayed on the touch screen (screen image varies).

Figure 1: TS1001 Touch Screen Arming Station overview



(1) Touch screen display panel
(2) * Menu key
(3) Home key
(4) Enter # key
(5) First four area LEDs
(6) Next four area LEDs
(7) Beeper

The TS1001 Touch Screen Arming Station (Touch Screen RAS) is used for controlling Challenger security system alarm and access functions. Arming stations are also known as remote arming stations or RASs.

Product features include:

- Touch screen keypad
- Beeper
- Integrated tamper switch
- Area and system status Light Emitting Diodes (LEDs)
- One open collector output is provided to drive a small relay or LED, for example.
- One input is provided for an egress function.

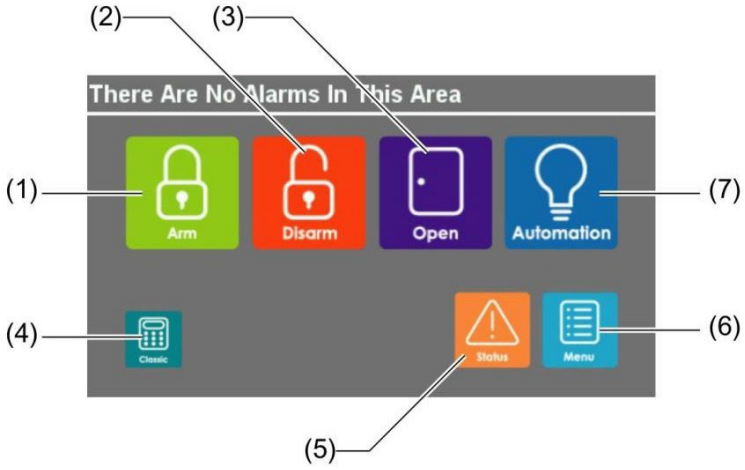
User interface details

A touch screen RAS provides a graphical mode of operating a Challenger system. In addition to the normal graphical mode's advanced user interface, the touch screen also has a "classic" mode that mimics a conventional LCD keypad.

Note: Different types of users may have levels of permissions to use the RAS. For example, access to "Install menu" options may be limited to installers, the ability to arm and disarm areas may be limited to users with "alarm" codes, and the ability to open a door may be limited to users with "door" codes.

When idle (not in programming mode and in the absence of alarms or faults) the touch screen resembles Figure 2 on page 3.

Figure 2: Home screen details



(1) Arm button
(2) Disarm button
(3) Open button (optional)
(4) Classic button (optional)
(5) Status button
(6) Menu button
(7) Automation quick control button (optional)

In idle state, the RAS's Home screen (Figure 2 above) has standard and optional graphical buttons to perform the following functions:

- The Arm button (item 1) followed by an alarm code is used to arm assigned areas, or to select and arm areas (depending on alarm group programming).
- The Disarm button (item 2) followed by an alarm code is used to disarm assigned areas, or to select and disarm areas (depending on alarm group programming).

- The optional Open button (item 3) followed by a door code (or an alarm code, depending on RAS programming) is used to open the RAS's door.
- The optional Classic button (item 4) is used to access the login (code) prompt for mimicking a conventional LCD keypad. When using classic mode, enter a menu number to access a Challenger menu option.
- The Status button (item 5) displays the alarm Quick History when the system is normal (no alarms). When alarms are present, the display shows the inputs in alarm.
- The Menu button (item 6) is used to access the login (code) prompt for graphical access to Challenger menu options.
- The optional Automation quick control button (item 7) is a shortcut to User menu option 24-Automation Control. Automation quick control does not require user authentication via PIN.

When you see one of the button images later in this manual, it means you begin at the Home screen and then press the button.

The RAS's physical * Menu, Home, and Enter # keys perform the following operations:

- The * Menu key (Figure 1 on page 1, item 2) may be used to access the login (code) prompt for graphical access to Challenger menu options. During programming, the * Menu key delete the last character entered, navigates backwards through menus, or toggles Yes/No values, as applicable.
- The Home key (Figure 1 on page 1, item 3) may be used to quickly exit the current option and return to the idle screen.
- The Enter # key (Figure 1 on page 1, item 4) followed by an alarm code, is used to select and arm areas (same as the Arm button). During programming, the Enter # key works the same as the graphical # or ↘↘↘ buttons.

Front LED indications

The area status LEDs (Figure 1 on page 1, items 5 and 6) display the status of areas 1 to 8 (or as configured).

The LED indications are as follows:

- The LED illuminates when its corresponding area is armed.
- The LED flashes slowly when a fault is detected, or when an alarm occurs, in disarm.
- The LED flashes quickly when a fault is detected, or when an alarm occurs, in arm.

Using the RAS

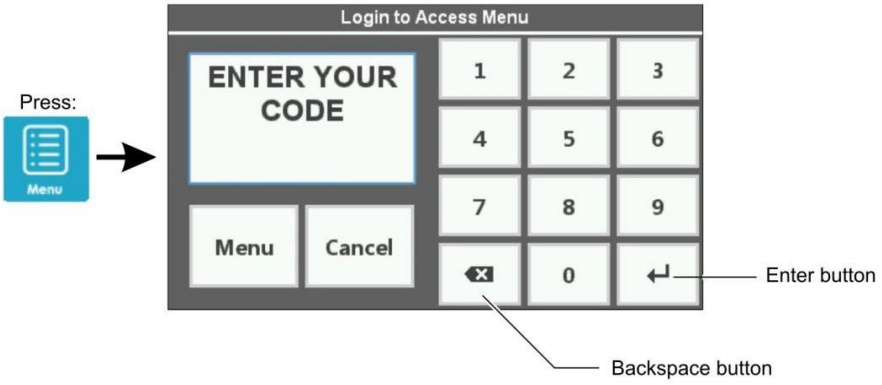
The following sections describe how to navigate via a Touch Screen RAS:

- “Logging in” below
- “Selecting a menu” on page 7
- “Entering text” on page 8
- “Arming and disarming” on page 10
- “Selecting areas by searching” on page 12
- “Logging in to classic mode” on page 14

Logging in

From the Home screen, press the Menu button or the * Menu key (Figure 1 on page 1, item 2).

Figure 3: Login screen



To login to the menu, press the buttons that correspond to your alarm code, and then press the Enter button (or press the Menu button). To delete the last digit entered press the * Menu key or the Backspace button during login.

Note: The numbered buttons shown in Figure 3 on page 6 (for example) will appear in different sequences if the RAS is programmed to scramble the keypad. The scramble keypad option moves the numbered buttons to different positions after every login to avoid providing visual clues to the numbers used.

Selecting a menu option

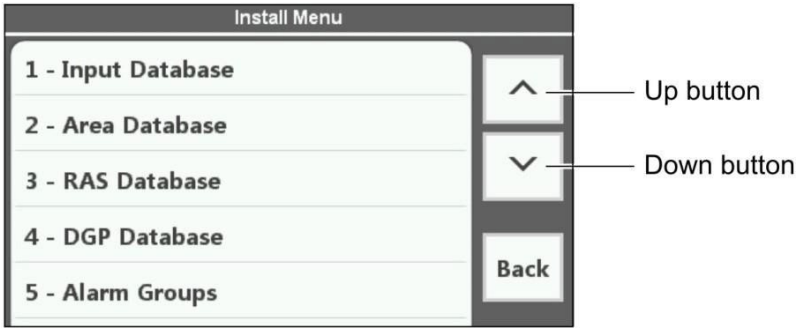
Use the Up and Down arrows to navigate the list of options. Touch the list item to access the option.

Figure 4: Menu screen

To access the Install menu, use the Up and Down arrows to display 19 – Install Menu. Touch the 19 – Install Menu list item to open the Install menu (Figure 5 on page 8).

Note: The TS1001 Touch Screen RAS displays lists of menu items (as in Figure 4 on page 7) instead of displaying one item at a time. The list depends on the user's alarm group and the RAS's alarm group (stored in the Challenger panel) which results in a small delay.

Figure 5: Install menu screen

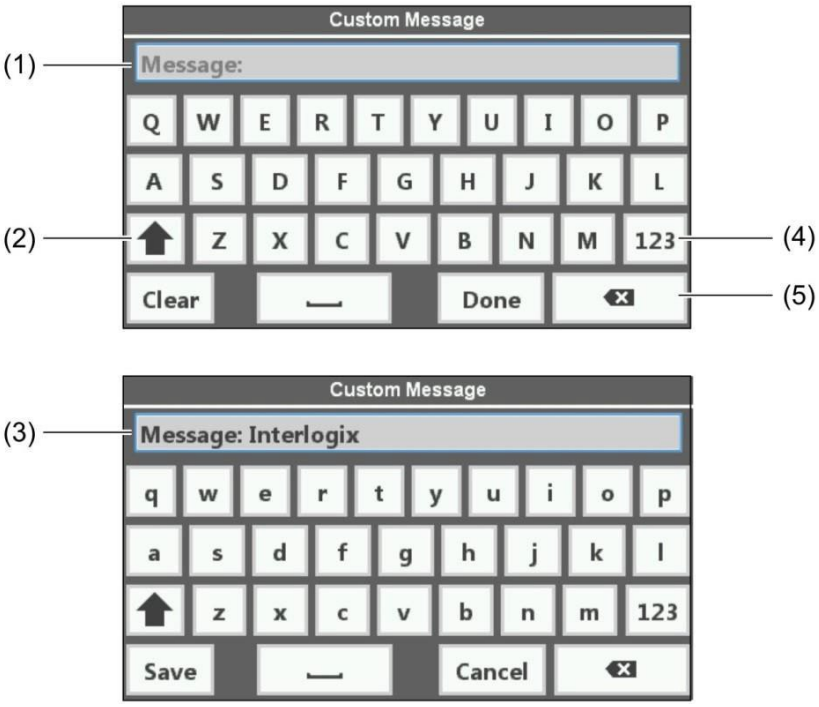


Use the Enter # key or Down button to navigate down the list of options, or use the * Menu key or Up button to navigate up the list of options. Press the list item to access the option.

Entering text

Text entry is used to enter things like user names, text words, custom RAS messages, and so on.

Figure 6: Text entry screen



(1) Read mode (greyed)
(2) Shift button
(3) Edit mode (black)
(4) Letter/numeral button
(5) Backspace button

Uppercase and lowercase keys are selected automatically. Use the Shift button to override the automated selection of case.

The Clear button deletes any pre-existing characters and exits the option.

You can’t modify existing text, but you can replace it with new text. As soon as you begin to enter text, it replaces any previous text.

Press the Done or Cancel buttons to exit this option.

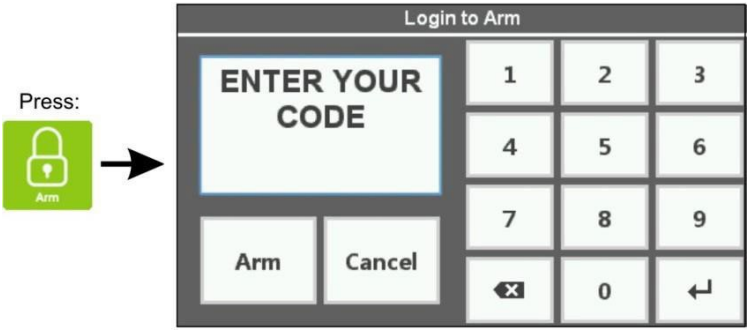
Arming and disarming

The examples in this section are for arming. The screens and processes for disarming are similar.

The Arm button (item 1) followed by an alarm code, is used to arm assigned areas, or to select and arm areas (depending on alarm group programming).

From the Home screen, press the Arm button to display the arming login screen (Figure 7 below).

Figure 7: Arming login screen

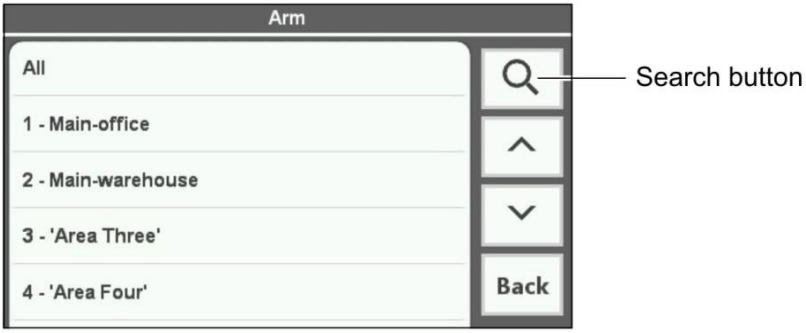


Press the buttons that correspond to your alarm code, and then press the Enter button (or the Arm button or the Enter # key).

Note: The arming and disarming process varies depending on system configuration. If the option “prompt with list of areas” is disabled, then the areas assigned to the user are not displayed, and assigned areas are immediately armed or disarmed. Examples in this manual assume that area selection is required.

The selection “All”, and any unarmed areas are listed (only a few are displayed at a time).

Figure 8: Area selection screen



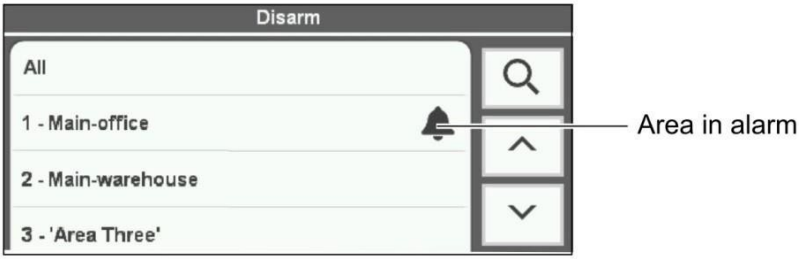
Use the Enter # key or Down button to navigate down the list of areas, or use the * Menu key or Up button to navigate up the list of areas.

Press either a displayed area or All to arm one area or all areas. In the example in Figure 8 above, if you press area 4, then it’s removed from the display and the next unarmed area is shown in the list.

Alternatively, press the Search button to search for named areas. See “Selecting areas by searching” below for details.

Note: The disarm screen (Figure 9 below) lists all armed areas, plus any (armed or disarmed) areas that are in alarm.

Figure 9: Disarm screen showing area in alarm



Selecting areas by searching

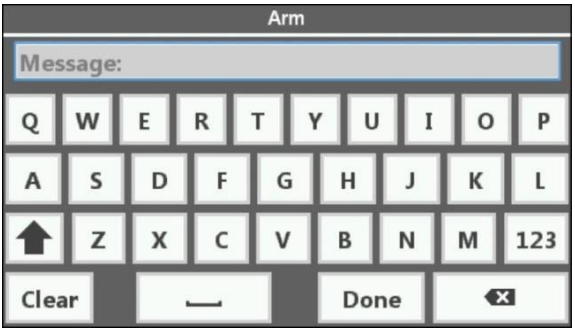
Areas are identified by a number from 1 to 99 and (optionally) a name programmed by the installer.

When arming or disarming the system, you may want to select a specific area instead of selecting all areas. The Touch Screen RAS supports area search to help you quickly find areas by name.

For example to arm an area named “Main-office”:

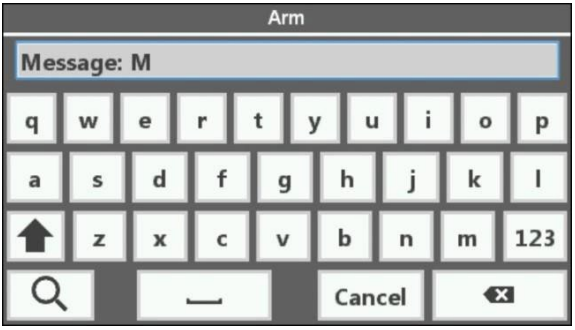
1. On the area selection screen (Figure 8 on page 11) click the Search button to open the search screen.

Figure 10: Area search screen (initial screen)



2. As soon as you enter a character, the screen automatically changes to edit mode and displays a Search button (Figure 11 below).

Figure 11: Area search screen (edit mode)



3. Press one or more characters (for example, M) and then press the Search button to see the area names starting with the characters entered (Figure 12 on page 14).

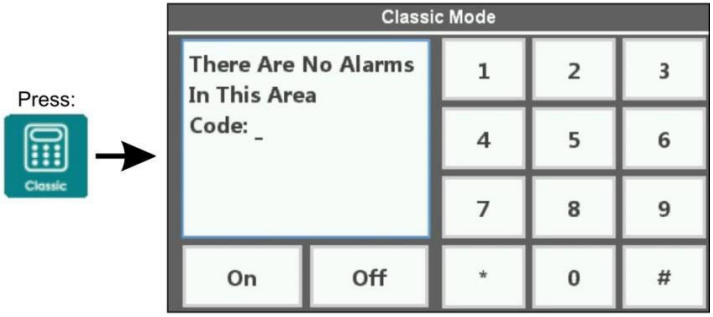
Figure 12: Area selection screen (filtered)

4. Press either a displayed area or All to arm one area or all displayed areas.
5. Alternatively, press the Search button again to define a new search.

Logging in to classic mode

From the Home screen, press the Classic button to display the login screen (Figure 13 below).

Figure 13: Classic mode home screen

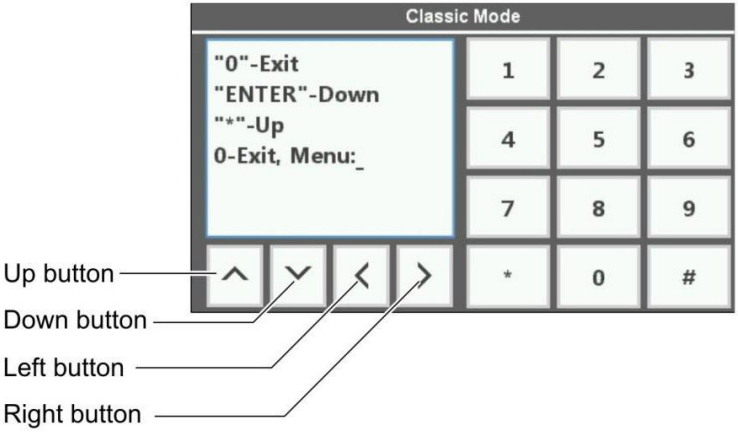


To login to the classic menu press the * button (or press the * Menu key) to display the login screen.

Figure 14: Classic mode login screen

Press the buttons that correspond to your alarm code, and then press the # button (or press the Enter # key).

Figure 15: Classic mode menu screen



Classic mode works like a conventional LCD keypad: you need to know a menu option number before you can access the menu.

To see menu option numbers:

- Press the # button, the Down button, or press the Enter # key, to navigate down the list of menu options.
- Press the * button, the Up button, or press the * Menu key, to navigate up the list of menu options.

Note: Some screens have Left and Right buttons (see Figure 15 on page 15). Use the Left and Right buttons to move backwards and forwards between records (such as inputs) for the same field. For example, you can enter a name for input 1, press [ENTER] to save, and then press the right arrow key to enter a name for input 2, and so on. When going backwards between records you can press the left arrow button to move immediately from the first record to the last record.

Press the buttons that correspond to the menu option number, and then press the # button (or press the Enter # key) to access the menu.

Some options have additional menus, such as the Install menu (Figure 16 on page 17).

Figure 16: Classic mode Install menu screen

Refer to the Challenger manuals for details about operating a Challenger system and entering text via a conventional LCD keypad.