MAXSYS system keypads provide a plain language interface using a large 32 character LCD display with adjustable brightness and contrast.

All system programming and user operations can be performed using the LCD keypads. Keypads are connected to PC4010/4020 control panels via a 4-wire system communications bus (Combus) which provides power for the keypads and acts as the system communication channel.

Keypads are enrolled onto the system at the time of installation, and are supervised for low voltage and presence by the main panel.

**Keypads Per System**

PC4010, PC4010CF, PC4020, and PC4020CF control panels:
- up to 16 keypads
- any mix of LCD4500/4501 keypads can be used in a system
- keypads can be assigned as "global" – for system wide control or "partition" – for operation of a specific partition only

**LCD4500 Series Keypads – Features**

- two line, 32 character LCD display
- programmable LCD display contrast and brightness
- LCD display and keys backlit for low light viewing
- individual LED indicators for Trouble and Armed
- piezobuzzer provides audible feedback for correct/incorrect key entries, entry/exit alert, and system trouble conditions
- three dedicated keys for keypad activated alarms:
  - Fire, Panic, Auxiliary
  - keypad activated Duress code… user code programmed as a Duress code.
  - keys 1 to 5 programmable as function keys… see Function Key Options for a complete list of available functions.
- other keypad versions in LCD4500 series (R = Canadian version):
  - LCD4500T………………. keypad with wall tamper
  - LCD4520/4500R……….. keypad with red bezel for fire panels
  - LCD4520T/4500TR …... keypad w/ wall tamper & red bezel for fire panels

**LCD4501 Series Keypads – Features**

- two line, 32 character LCD display
- programmable LCD display contrast and brightness
- LCD display and keys backlit for low light viewing
- ‘backlighting boost’ provides extra key back-lighting when any key is pressed
- individual LED indicators for Trouble, Armed, and Ready
- piezobuzzer provides audible feedback for correct/incorrect key entries, entry/exit alert, and system trouble conditions
- three dedicated keys for keypad activated alarms:
  - Fire, Panic, Auxiliary
  - each key individually enabled via programming
  - each key individually programmable to activate the bell output with a choice of steady or pulsing output
  - each key individually programmable to activate the keypad buzzer to provide 3 beeps on a keypress.
  - keypad activated Duress code… user code programmed as a Duress code.
- 5 individual programmable function keys…see Function Key Options for a complete list of available functions.

**LCD4501 Keypad…factory default functions are**:
1. Silence Trouble
2. Silence Bells
3. Fire Drill
4. Fire Reset
5. Lamp Test

**LCD4521/4501R series keypads (fire)…factory default functions are**:
1. Stay............... Stay arming
2. Away .......... Away arming
3. Chime ...... Door chime on/off
4. Reset......... Reset smoke detectors
5. Exit ............ Activate quick exit

**other keypad versions in LCD4501 series (R = Canadian version):**
- LCD4501T………………. keypad with wall tamper
- LCD4521/4501R……….. keypad with red bezel for fire panels
- LCD4521T/4501TR …... keypad w/ wall tamper & red bezel for fire panels
The following is a complete list of functions that can be programmed for the five dedicated function keys on LCD4501 series keypads or for keys 1 through 5 on LCD4500 series keypads. Each keypad can be programmed with a different set of functions if desired.

- Null (no function)
- Away Arm
- Door Chime On/Off
- Bypass Mode
- Alarm Memory
- User Functions
- Reactivate Stay/Away Zones
- Silence Trouble
- Fire Reset
- Lamp Test
- Stay Arm
- No-Entry Arm
- System Test
- Trouble Display
- Programming Access Codes
- Quick Exit
- Command Output Option #1-8
- Silence Bells
- Fire Drill
- Fire Inspection Test

Specifications

- Operating environment: -32 to 122°F (0 to 50°C)
- 90% RH non-condensing
- Current draw:
  - 55 mA (from Combus)
  - 90 mA with backlighting boost on LCD4501 series
- Dimensions: 5.75" x 4.5" x 1" deep (14.4 x 11.4 x 2.5 cm)

Listings

USA*
UL 1610 .... Central Station Burglar Alarm
UL 609 .... Local Burglar Alarm
UL 365 .... Police Station Burglar Alarm
UL 985 .... Household Fire Warning
UL 1023 .... Household Burglar Alarm

In addition, the LCD4520/21 is listed:
UL 864 .... Control Units System (L, CS, -A, M, SS, WF)

Canada
ULC-S527 .... Central Station Fire Alarm
ULC-S302 .... Central & Monitoring Station Burglar Alarm
ULC-S303 .... Local Alarm (Commercial Burglar)
ULC-S310 .... Household Burglar Alarm
ULC-S545 .... Household Fire Warning
ULC294 .... Access Control

* At least one fire version keypad must be used with Maxsys UL listed “CF” commercial fire panels

Typical System Arrangement

Ordering Information

LCD4500 Series... without dedicated function keys:
LCD4500 ........ LCD keypad
LCD4500T ....... LCD keypad with wall tamper
LCD4520 ........ LCD keypad with red bezel for fire panels
LCD4520T ........ LCD keypad with red bezel and wall tamper

Canadian Version
LCD4500R ........ LCD keypad with red bezel for fire panels (CND)
LCD4500TR ....... LCD keypad with red bezel and wall tamper (CND)

LCD4501 Series... with 5 dedicated function keys:
LCD4501 ........ LCD keypad with 5 function keys
LCD4501T ....... LCD keypad with 5 function keys & wall tamper
LCD4521 ........ LCD keypad with 5 function keys & red bezel for fire panels
LCD4521T ........ keypad with 5 function keys, wall tamper & red bezel for fire panels

Canadian Version
LCD4501R ........ LCD keypad with 5 function keys & red bezel for fire panels (CND)
LCD4501TR ....... keypad with 5 function keys, wall tamper & red bezel for fire panels (CND)

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