

Counter using MT-LCD

Application note

ONLine Access

How to display the counter using
MT-LCD and PROS CS

A050

MT-LCD can display the number of users present in some area and the number of users available for fulfilling the counter limit.

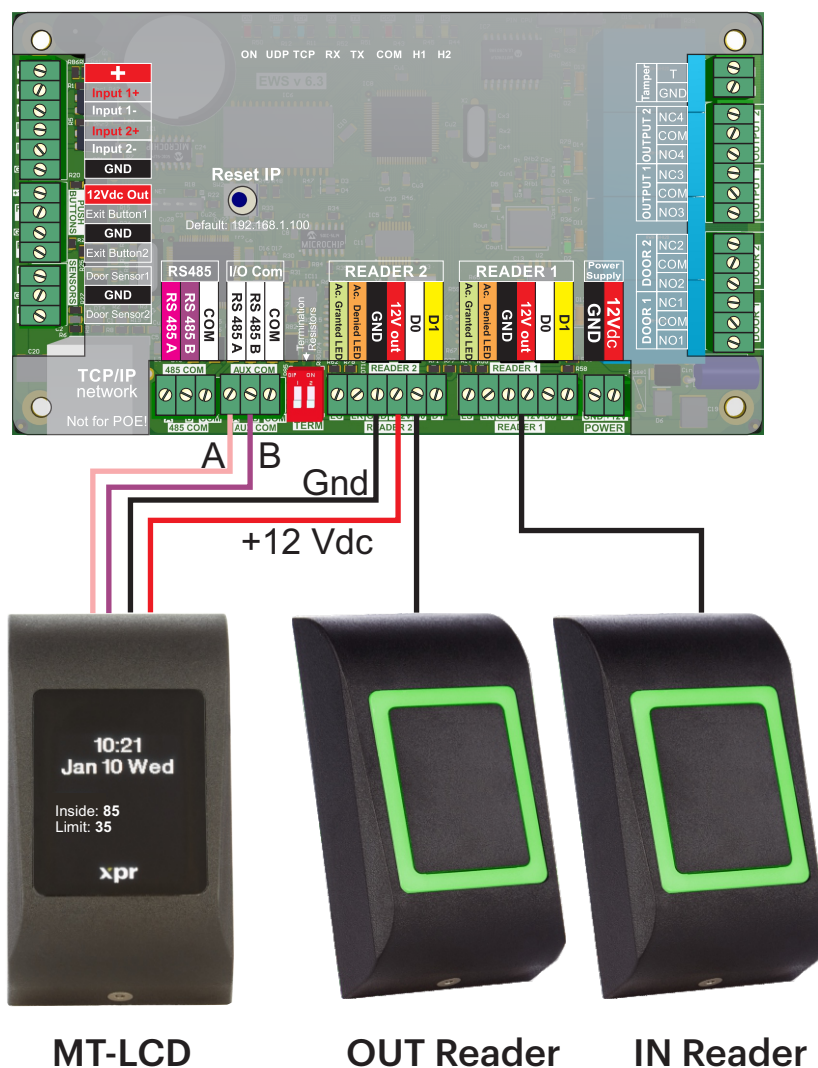
When the limit is reached, the users after will be denied of access. If someone goes out, another person can go in. The counter can be guided by the actual card punch or by the door sensor (if the door was physically open or not after a card punch).

The counter works with EWSi firmware 4.02 or higher.

MT-LCD needs full licensed PROS CS software ver.5 or higher.

1. Connect the display

Connect the display to the second RS485 input. Take power supply from the reader's terminal block or from the main power terminal block.



2. Set the address of MT-LCD display

The display must be given address in order to communicate with PROS CS software.

- Put an address to the display using the dip-switch (pos. 1 and 2). The addresses are given in the table.
- After address is selected by dip-switch, give the same address in the PROS CS software. Go to Controller:right click/Properties/ Counter tab.

Portals\Wired Router Test\Wired Router Test

Properties Time zones Holidays Advanced APB Lift control Counter

Reset counter time 00:00

Reset counter days ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ Sun

☒ Hol

☐ Reset counter by input ☐ Input 1 ☐ Input 2

Threshold (0-15000, 0 = Disabled) 120

Threshold relay ☐ Output 1 ☐ Output 2

Block Reader 1 on threshold ☐ Block users with APB restriction ☐ Block users with APB override

Count users ☐ Count users with APB restriction ☐ Count users with APB override

Counter 0 to 1 action None

Counter 1 to 0 action None

☒ Send counter to Display with address 1

1
2
3
4

Address	Switch 1	Switch 2	DipSwitch
1	OFF	OFF	
2	OFF	ON	
3	ON	OFF	
4	ON	ON	

- 1.Address
2.Address
3. Not used
4.RS485 termination
-

3. Set up the limit of the counter and the trigger action for that limit.

Configure the counter in Controller:right click/Properties/ Counter tab. Then also set up the readers, where they are “entry to” and “exit from”.

Portals\192.168.1.218\1st floor

Properties Time zones Holidays Advanced APB Lift control Counter

Reset counter time 14:07

Reset counter days ☒ Mon ☒ Tue ☒ Wed ☒ Thu ☒ Fri ☒ Sat ☒ Sun

☒ Hol

☐ Reset counter by input ☐ Input 1 ☐ Input 2

Threshold (0-15000, 0 = Disabled) 120

Threshold relay ☐ Output 1 ☐ Output 2

Block Reader 1 on threshold ☐ Block users with APB restriction ☐ Block users with APB override

Count users ☐ Count users with APB restriction ☐ Count users with APB override

Counter 0 to 1 action None

Counter 1 to 0 action None

☐ Send counter to Display with address 1

Save & Exit

Portals\192.168.1.218\1st floor/Main Entry/Main Entry

Basic Free Access Time Zones Display

Reader 1

Name Main Entry

Type Proximity

Door Main Entry

Wiegand type Wiegand 26

Enable access by time zones ☒

Bypass Antipassback ☐

Exit from Outside

Entry to Inside

Antipassback reset time 00:00

Free access 24/7 ☐

If 0 illegal attempt, disable for 0 minutes

Required number of valid users for access 1

Camera None

Save & Exit

Additionally, you can configure when the counter will reset and what action will be triggered after the limit is reached (apart from denying access).
Separate action can be made when the counter goes from 0 to 1 and vice versa for the use of the feature “first man in/last man out”.