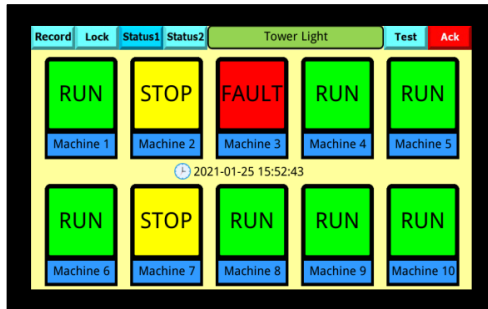
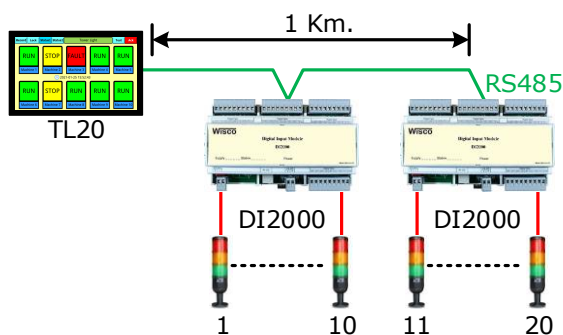


Tower Light Indicator TL20

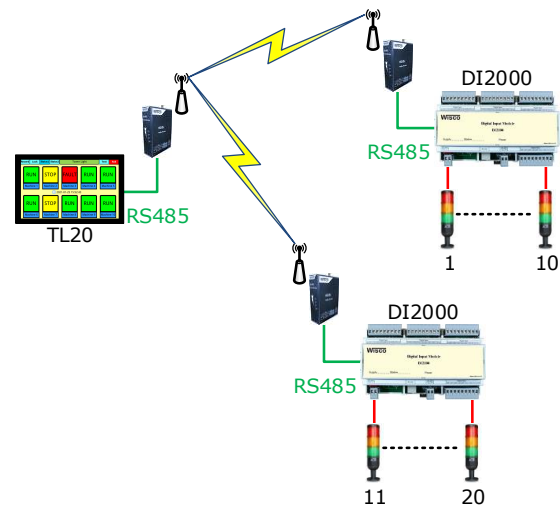


- 7" Touch Screen Panel
- 20 Tower Light Display
- With Alarm Function
- Record Data in SD Card

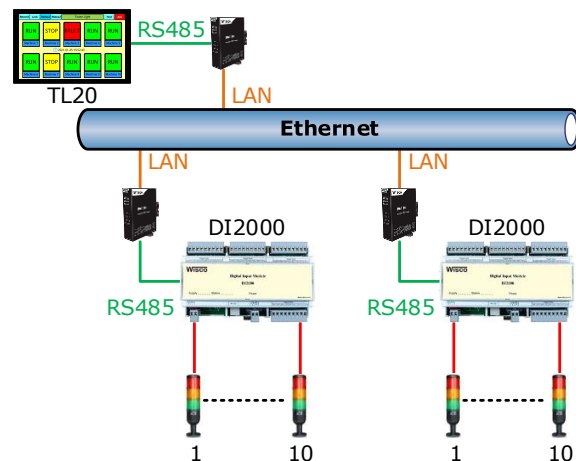
Tower Light Indicator TL20 The system can aggregate signals from up to 20 tower lights and display the status on a touchscreen. An audible alarm sounds whenever a fault signal occurs. Additionally, tower light data is logged for historical review and can be saved to an SD card as a CSV file, which is compatible with computer software such as Excel.



Connection via RS485.



Connection via Wireless (RC45).



Connection via Ethernet (MC320).

Specifications

Display

Size: 7" Touch Screen

Resolution: 800 x 480 px

Color: 65 K Color, 16 Bit RGB

Input

Input: 20 Tower Light Max.

Sensor Type: Wet Contact

ON : 12 to 24 VDC (220 VAC Optional)

OFF : 0 to 3 VDC

Isolation: Opto Isolated

Tower Light Name: 26 Characters Max.

Action: 64 Characters Max.

Power Requirements

Power Supply: 85 to 230 VAC

(12 to 35, 110 to 125 VDC Optional)

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

Dimension: W220 x H140 x D60 mm.

Panel Cutout: W202 x H122 mm.

Mounting: Panel Mount

Warranty

Warranty Period: 1 Year

Ordering Information Specify Alarm Input Voltage, Power Supply

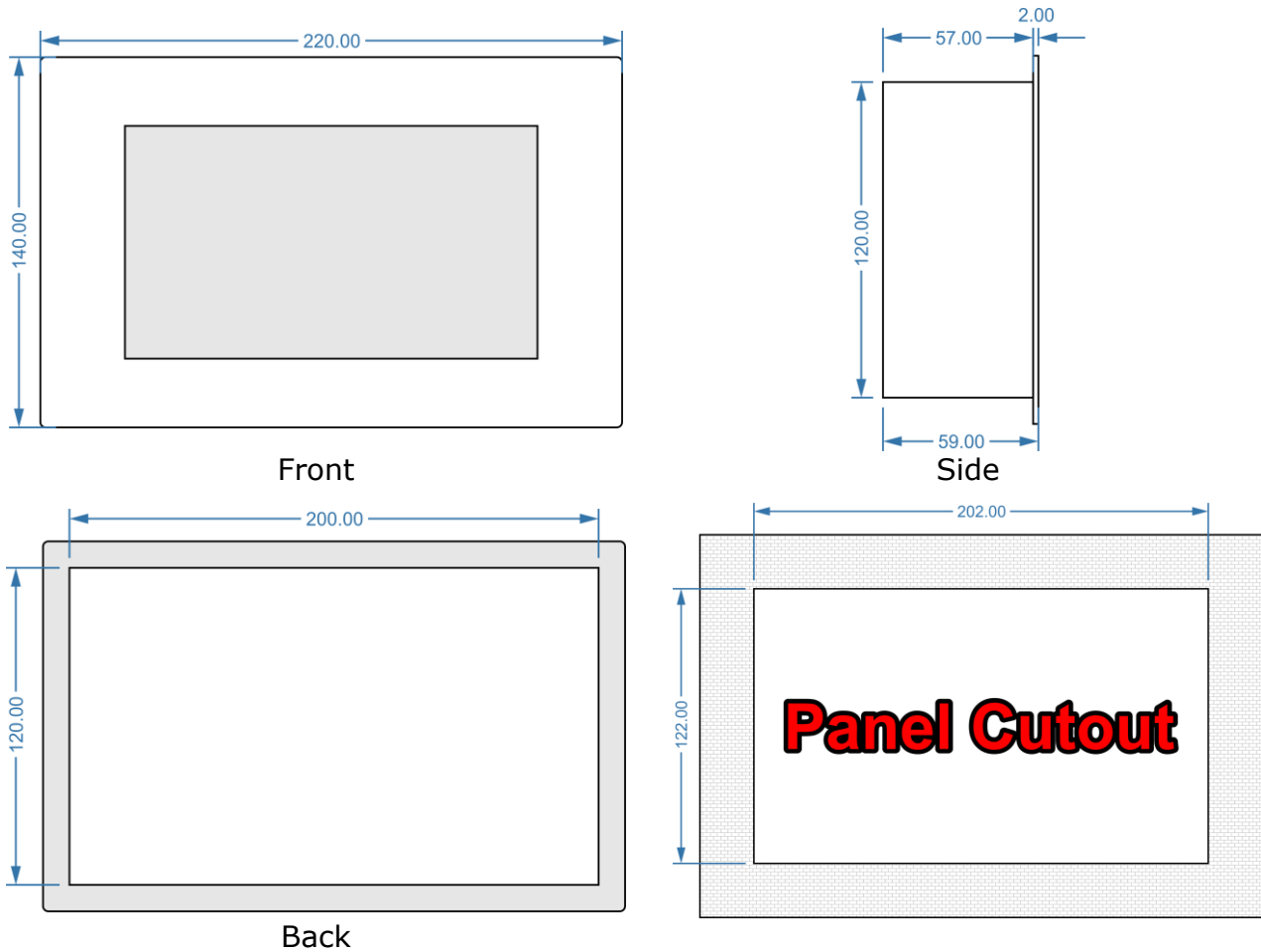
Example TL20/12-24VDC/85-230VAC

Package Checklist

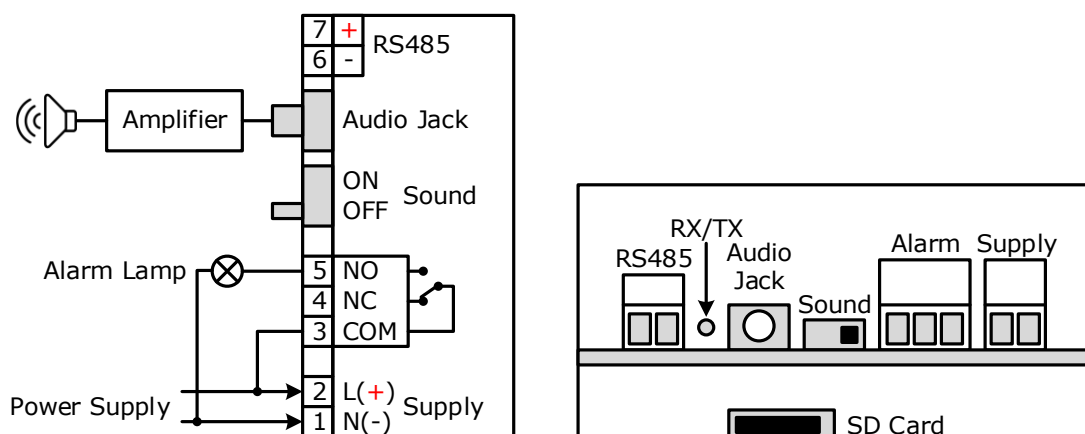
1. TL20
2. DI2000

I. TL20 Connection Method

Dimensions (Unit: mm.)

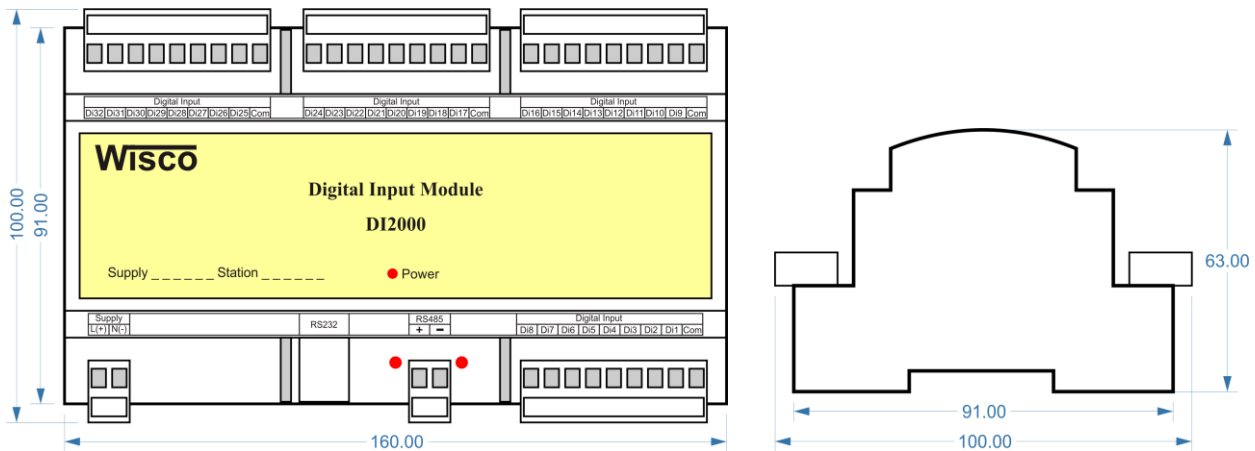


Wiring

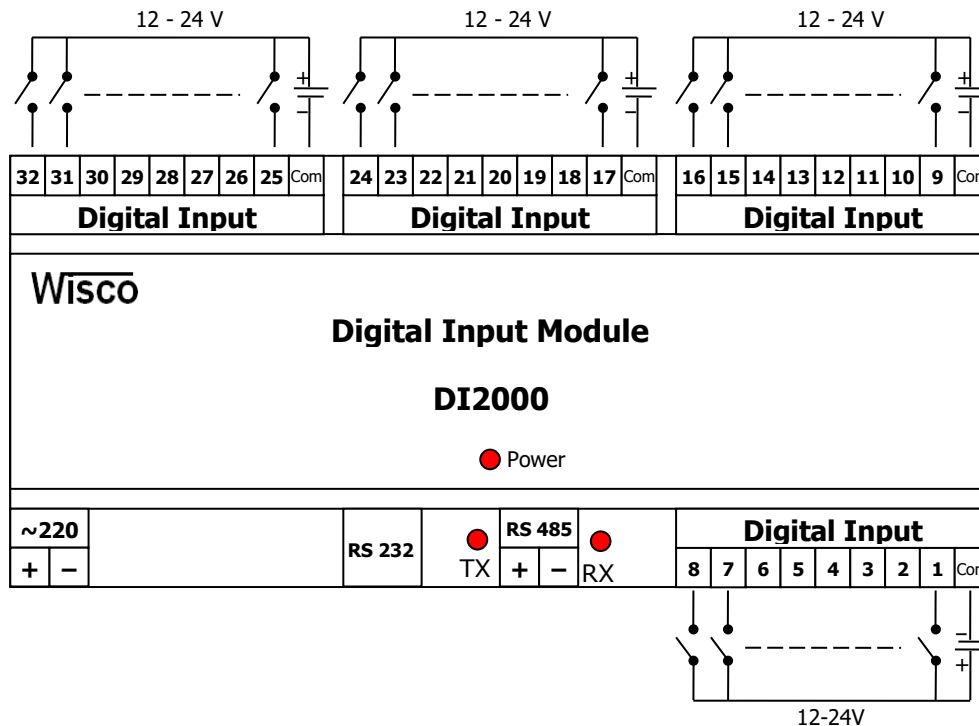


II. DI2000 Connection Method

Dimensions (Unit: mm.)



Wiring



Note: R = RUN, S = STOP, F = FAULT

DI2000 Station 1

DI1 = R1 DI4 = R2 DI7 = R3 . . . DI28 = R10
 DI2 = S1 DI5 = S2 DI8 = S3 . . . DI29 = S10
 DI3 = F1 DI6 = F2 DI9 = F3 . . . DI30 = F10

DI2000 Station 2

DI1 = R11 DI4 = R12 DI7 = R13 . . . DI28 = R20
 DI2 = S11 DI5 = S12 DI8 = S13 . . . DI29 = S20
 DI3 = F11 DI6 = F12 DI9 = F13 . . . DI30 = F20

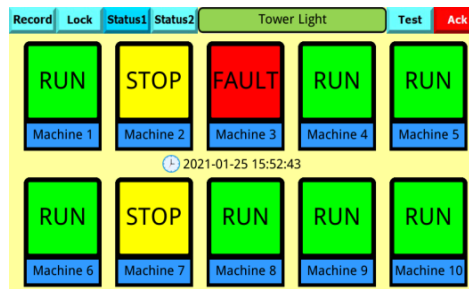
DIP Switch:
DI2000 Station 1

1	2	3	4	5	6	7	8
ON	OFF	OFF	OFF	OFF	ON	OFF	OFF

DI2000 Station 2

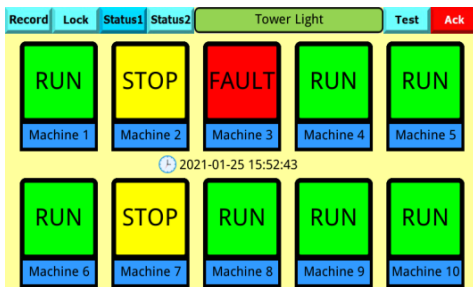
1	2	3	4	5	6	7	8
OFF	ON	OFF	OFF	OFF	ON	OFF	OFF

Operation of the Tower Light Indicator TL20



Before using the TL20, the RS485 connection to both DI2000 modules must be correctly established. If connected properly, the RX and TX indicator lights on the DI2000 will flash. Details regarding the TL20 configuration are as follows:

❖ Display



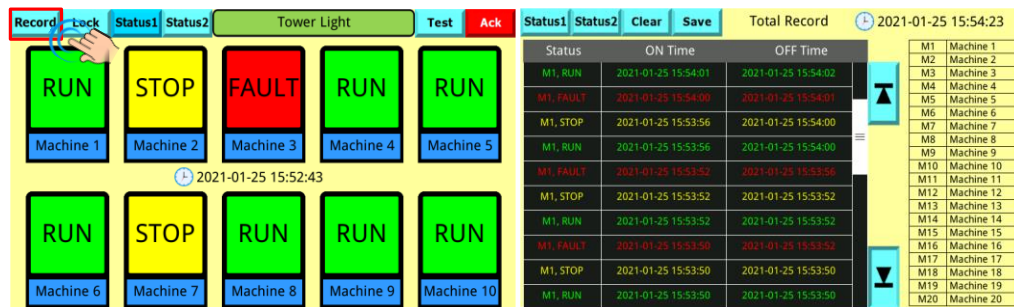
The Tower Light Indicator features two display screens, each showing the status of 10 machines. There are three status indicators: "RUN", "STOP", and "FAULT". If a machine enters the "FAULT" state, an alarm sounds; the "Ack" button must be pressed to silence it. The "Test" button is used to test the alarm sound.

❖ Recording the operating time of each machine



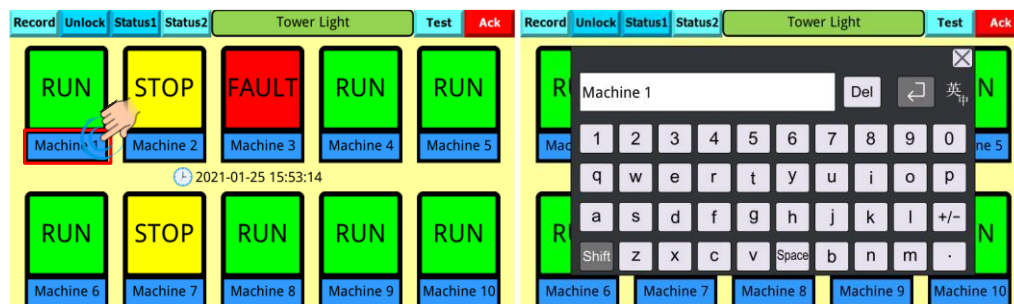
Tapping the "Lamp" indicator for a specific machine opens a screen displaying its operation time logs. This screen also allows you to enter notes or alerts for the machine; tapping the "Note" field triggers a pop-up keyboard for text entry (up to 64 characters). Pressing the "Down" button (↓) displays the earliest record, while pressing the "Up" button (↑) displays the most recent one.

❖ Recording of machine operating times (all machines)

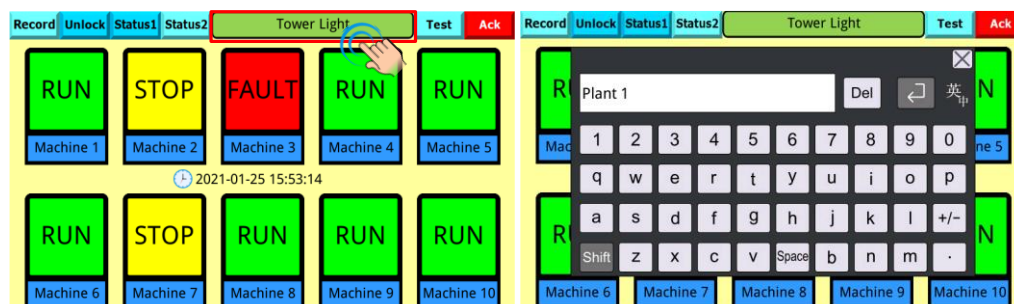


Pressing the "Record" button displays a screen showing the combined operating time for all machines. This data can be saved to an SD card by pressing the "Save" button; the data is stored as a CSV file, which can be opened using computer software such as Excel. Pressing the "Down" button (↓) displays the earliest record, while pressing the "Up" button (↑) displays the most recent record.

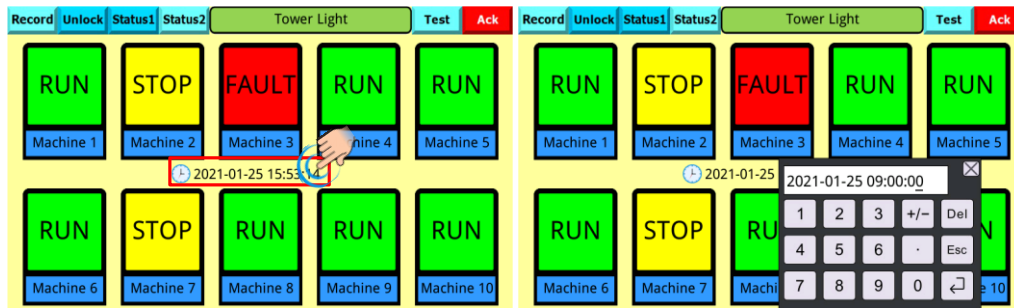
❖ Programming of machine names, display screen names, and the clock.



- 1) Switch the "Lock" button to "Unlock".
- 2) Tap the area below the machine status indicator lamp; a keyboard will pop up, allowing you to assign a name to each machine (up to 10 characters).



- 3) Tap the top of the screen to enter the name for this page (26 characters).



- 4) Tap on the “Clock” icon to set the time. After configuring the settings, press the “Unlock” button to switch it back to “Lock”.