

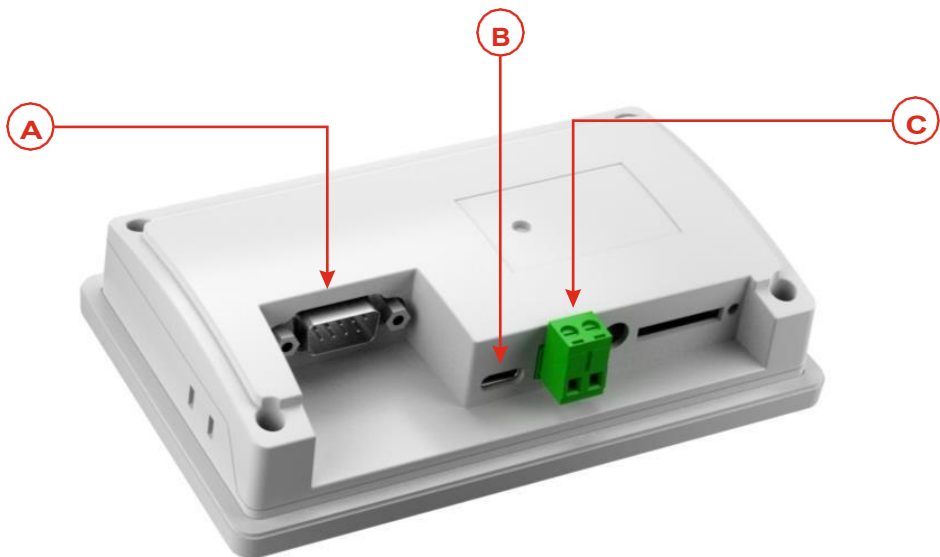
UTM Machine - User Manual



Display Specification:

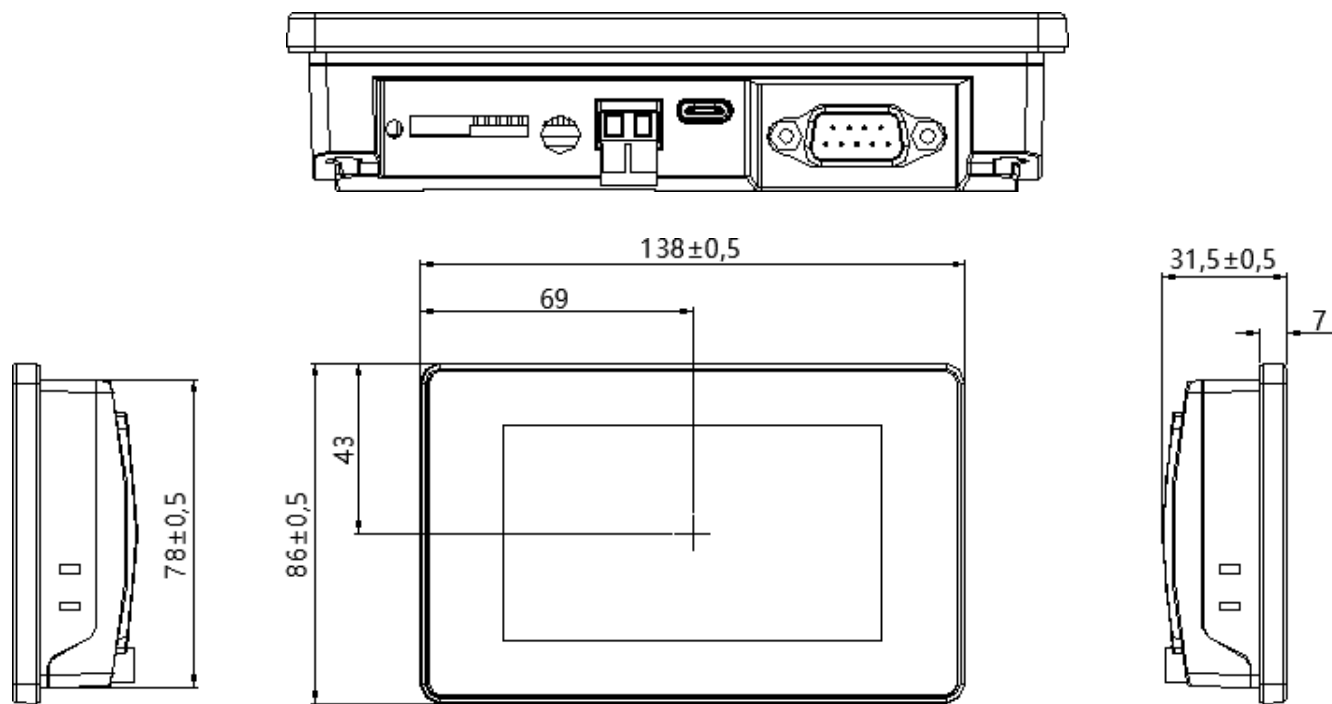
Display	4.3" 16:9 TFT LCD Screen	7.0" 16:9 TFT LCD Screen
Resolution	800 X 480	800 X 480
Color	16 Bit	16 Bit
Brightness	250 CD/m ²	250 CD/m ²
Backlight	LED	
Touch Screen	4-line industrial resistive HMI	
LCD Life	50000 Hours	

Wiring Connection of 4.3" HMI:

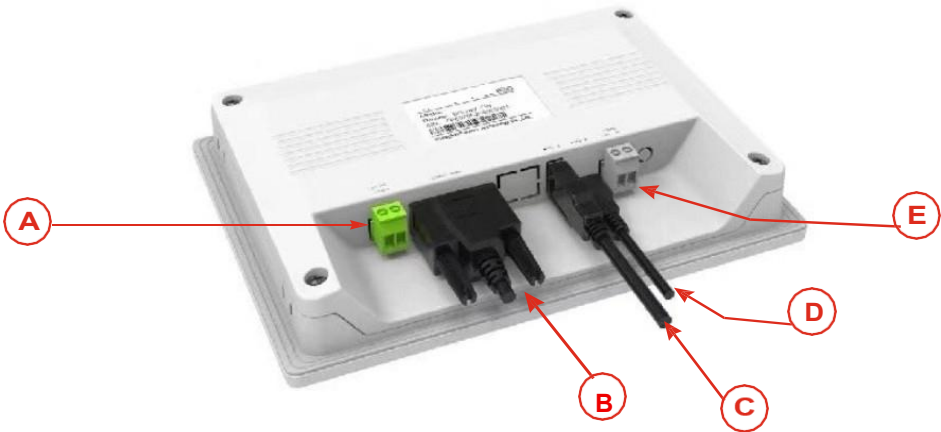


Sr.No	Connection	Discription
A	DB 9 Connector	For Device Communication & Printing
B	USB Type C	For Downloading Program & to Copy Data In Pendrive
C	Power Terminal	Pin 1 - 0V Pin 2 - DC 24V

Mechanical Dimensions of 4.3" HMI:

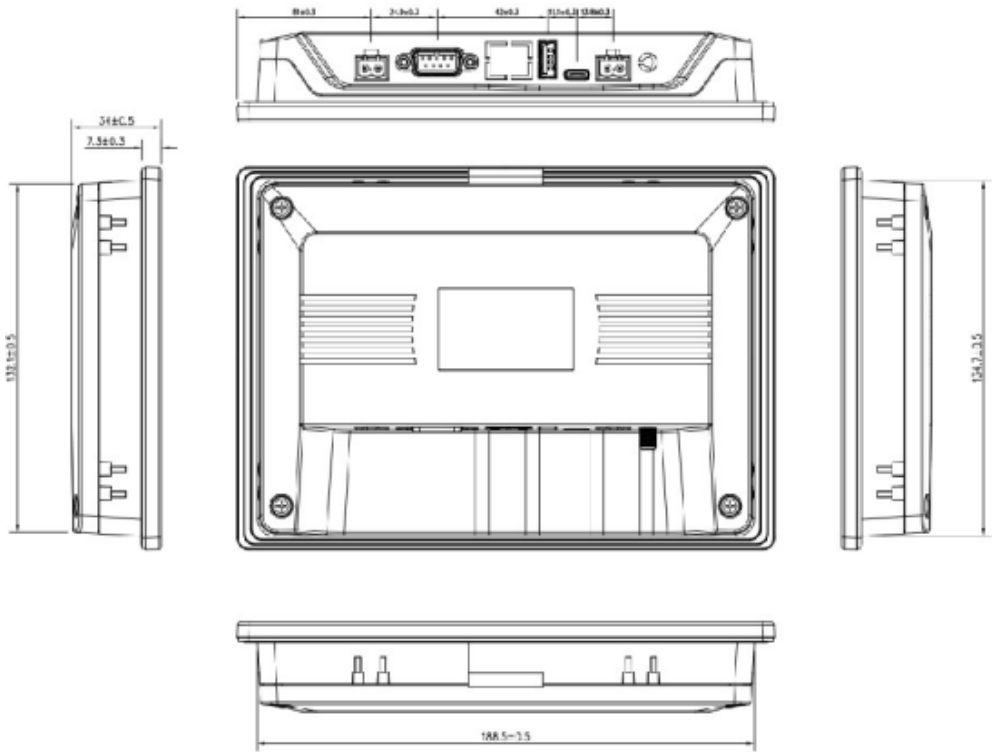


Wiring Connection of 7.0" HMI:

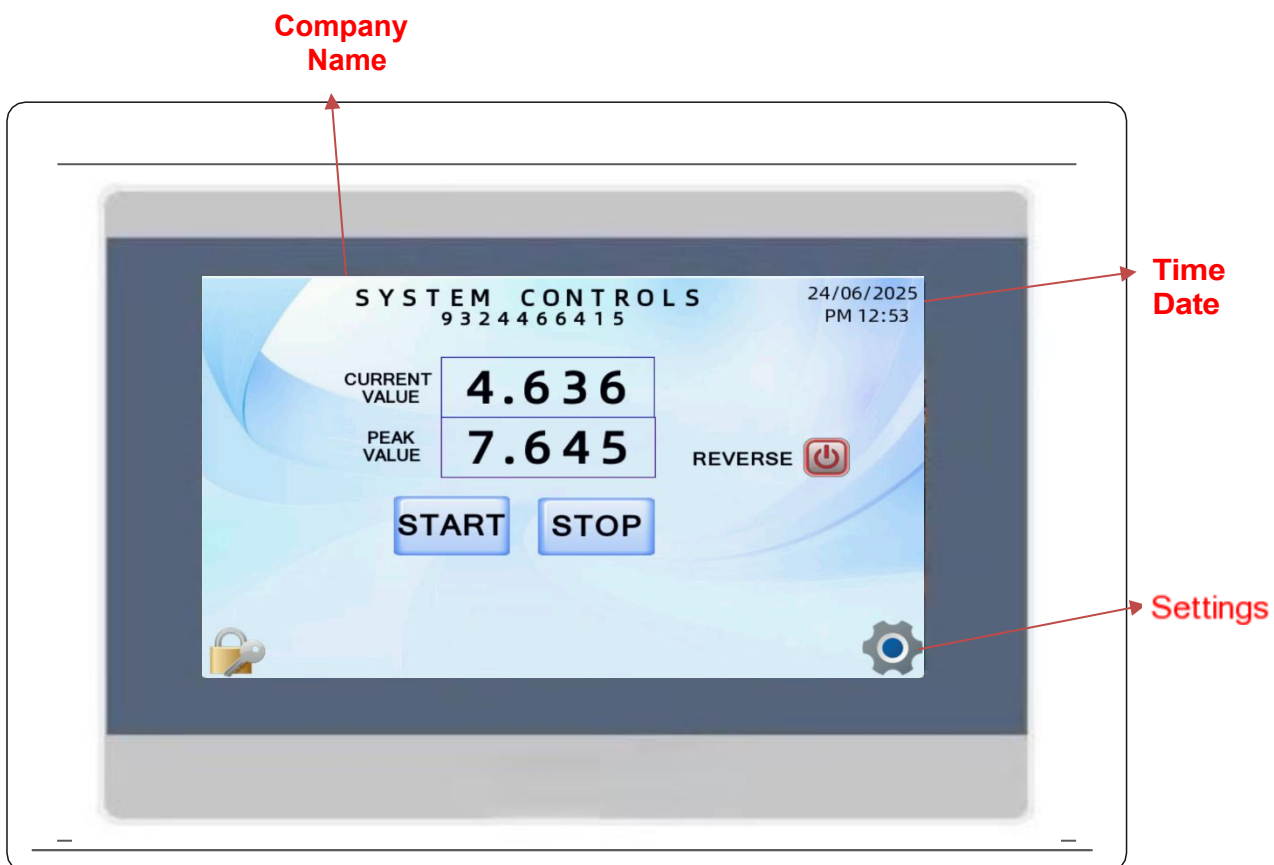




Sr.No	Connection	Discription
A	Power Terminal (COM1/COM3)	Pin 1 - (-DC GND) Pin 2 - (+DC 24 V)
B	DB 9 Connector	For Device Communication & Printing
C	USB Host	Connecting U-DISC and Scanner etc.
D	USB Slave	For Downloading Program
E	485 Terminal (COM2)	Pin 1 - A+ (+RS-485) Pin 2 - B- (-RS-485)

Mechanical Dimensions of 7.0" HMI:



Home Screen:







1.	24/06/2025 PM 12:53:27	Calendar Date & Clock Time: These two fields show the current date (DD/MM/YY) & time (HH:MM:SS, 24 Hours format), respectively. With the help of clock symbol, you can set real time clock date and time.
2.		Settings: Click this icon to Device Settings.
3.		Reverse: To operate in reverse mode.
4.	CURRENT VALUE	Current Value: It is current load value.
5.	PEAK VALUE	Peak Value: Peak Load value of the load cell.





Password

Access Level	Access Level
Password	15

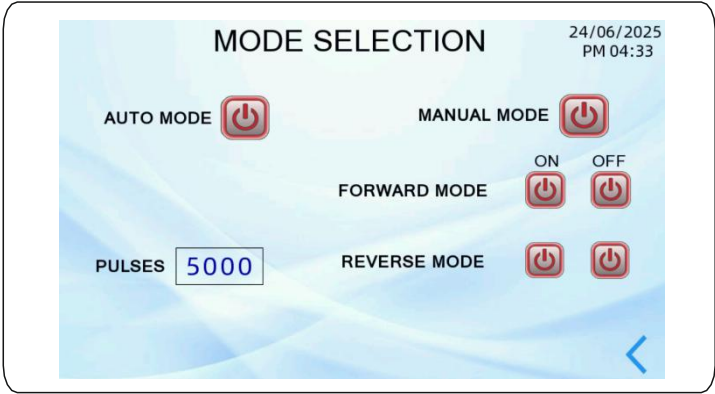
1. Settings:



1.	 Control Settings	Stepper motor Settings.
2.	 Trend Logs	To observe real time channel data in the form of graph.
3.	 Display Settings	To set company name, contact, location and department.
4.	 Privilege Settings	Privilege settings are mainly for setting user id and passwords.

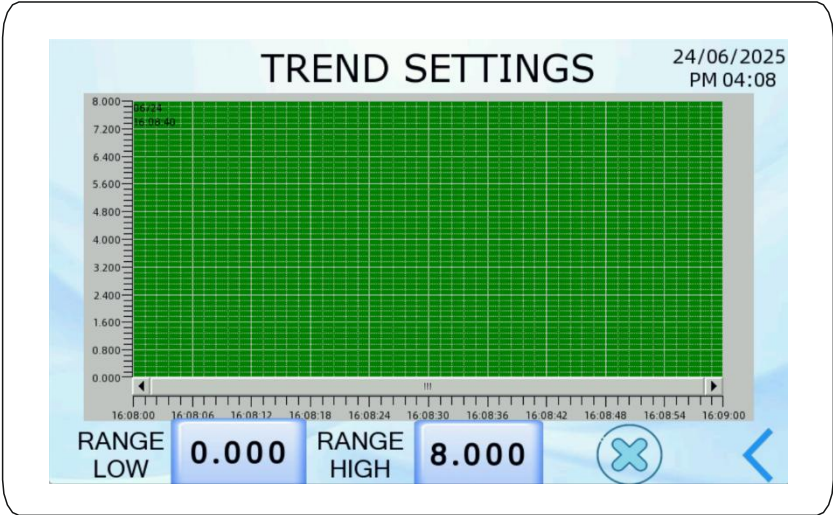
5.		Alarm Logs: It is to observe real time Alarm Logging data.
6.		Data Logs: It is to observe Peak-Load data.
7.		Operator Log: To get operator data such as operator login, logoff.
8.		RTC settings: To change real time clock settings

1. Control Settings:



1.	AUTO MODE	Usually Operation occurs in Auto-Mode.
2.	MANUAL MODE	When Manual Operation is selected you can operate stepper in forward and reverse mode manually.
3.	PULSES	By setting number of pulses, you can increase and decrease speed of Motor.

2. Trend Logs:



Graph Settings: Set high and low limits to visualize real-time channel data and behaviour through a live graph.

3. Display Settings:



DEVICE INFORMATION

24/06/2025
PM 05:23

COMPANY NAME :

SYSTEM CONROLS

👁

CONTACT :

9324466415

👁

DEPARTMENT :

LOCATION :

4. Privilege Settings:



User Privilege

Serial No.	User Name	User Privilege
1	admin	1,2,3

Add user privilege




Delete user privilege

Change password

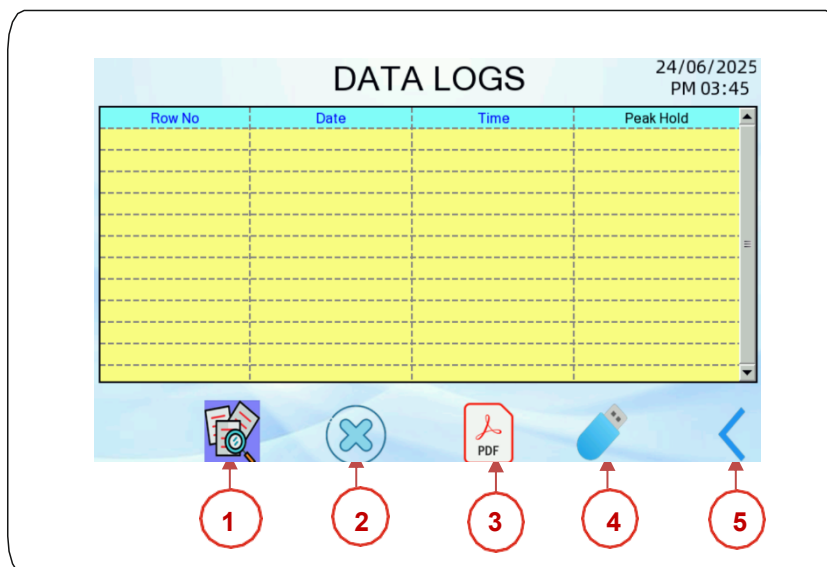
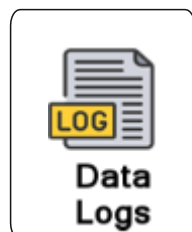
Quit






5. Alarm Logs:

[illegible]

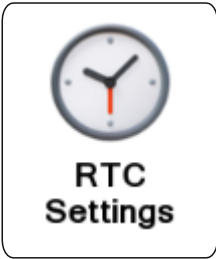
1.		To copy Data in Pen-Drive in form of Excel.
2.		Back button to go back to setting screen.
3.		To Clear Data-logging we use this Button.

6. Data Logs:



1.		To Search Data-log by selecting Start date and End date.
2.		To Clear Data-logging we use this Button.
3.		To copy Data in Pen-Drive in form of PDF.
4.		To copy Data in Pen-Drive in form of Excel.
5.		Back button to go back to setting screen.

7. RTC Settings:

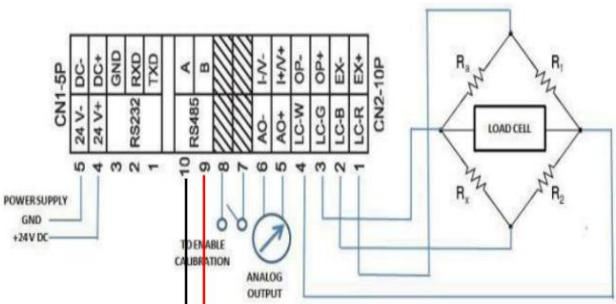
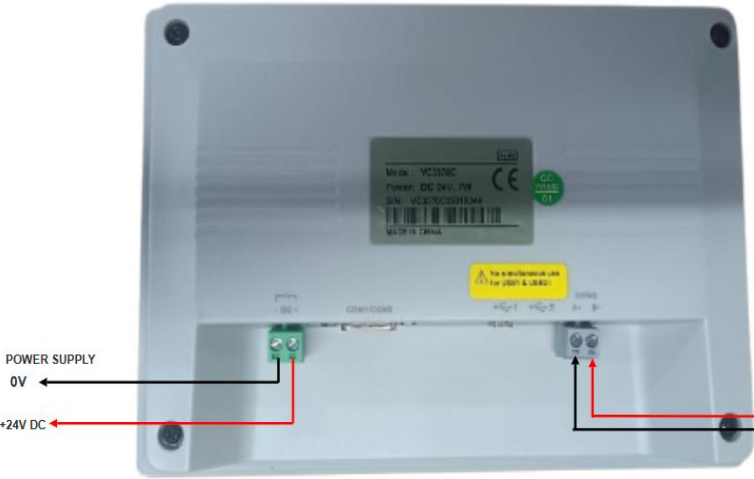


8. Wiring Diagram:

DRAWING NO. 1:

7INCH HMI WITH RS485 AND POWER SUPPLY

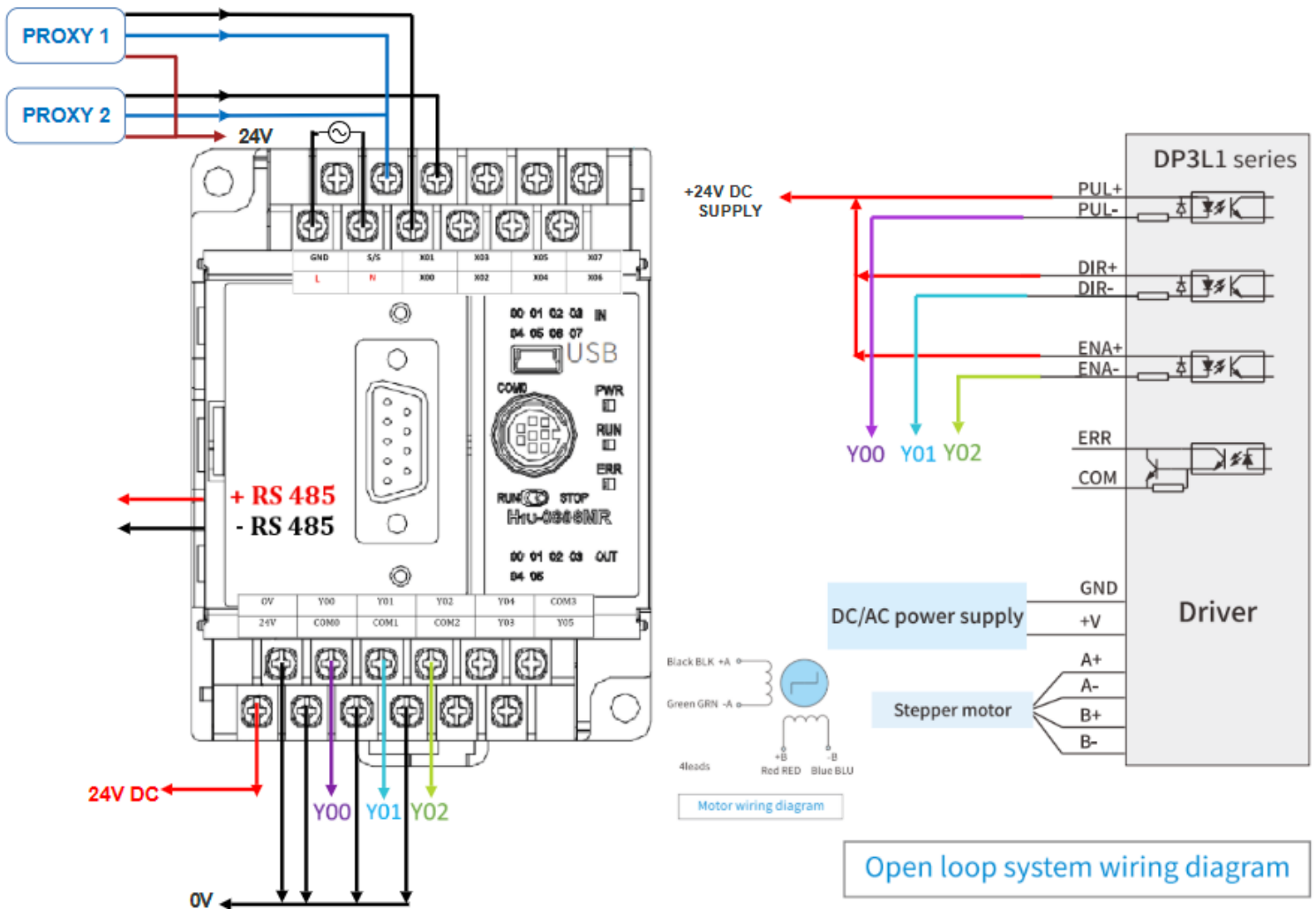
INDICATOR REAR VIEW & CONNECTION DETAILS



UTM MACHINE WIRING DIAGRAM			
SYSTEM CONTROLS			
DRAWN	CHECKED	DATE	DRAWING NO.
DS	KS	25-06-2025	1

DRAWING NO. 2:

STEPPER MOTOR CONNECTION WITH PLC



Open loop system wiring diagram

UTM MACHINE WIRING DIAGRAM			
SYSTEM CONTROLS			
DRAWN	CHECKED	DATE	DRAWING NO.
DS	KS	25-06-2025	2

