



**KARNATAKA ANTIBIOTICS &
PHARMACEUTICALS LIMITED**

(A Government of India Enterprise)

ENQUIRY REF No:	KAPL/EL/012/1610
DATE	10-12-2025
DUE DATE	16-12-2025 (13:00 HRS)

Dear Sir,

Please submit your lowest and competitive offer in a SEALED ENVELOPE, DULY SUPERSCRIBING OUR ABOVE ENQUIRY REF. NO., DATE and DUE DATE on it/ OR MAIL, with other details of F.O.R terms, Taxes, Credit period, Delivery offered, Name of the Make, Detailed Specification etc., for below mentioned material/s

SL NO.	ITEM CODE	ITEM DESCRIPTION	UOM	QTY
01	EPLC003	PLC (HMI), LED DISPLAY, RS485, MODBUS RTU, TWIX-2-230V	NOS	2

1) Please ensure that your offer reaches us on or before Due Date by courier OR speed post OR you can also mail us to our email: puren@kaplindia.com

2) Please send your quotation mentioning KAPL item code or your quote will not be considered.

OTHER TERMS:

1. F.O.R TERMS	: DOOR DELIVERY TO PEENYA
2. GST %	: PLEASE SPECIFY
3. PACKING & FORWARDING CHARGES	: NOT APPLICABLE
4. CREDIT PERIOD	: 30 DAYS
5. DELIVERY OFFERED	: PLEASE SPECIFY
6. ATTACHED PAGES	: 3 PAGES
7. MAKE	: SELEC

NOTE: IN CASE YOU ARE NOT QUOTING PLEASE SEND THE REGRET LETTER / MAIL.

Thanking you,

Yours faithfully,
For KARNATAKA ANTIBIOTICS
& PHARMACEUTICALS LIMITED

YUVARAJA M
DEPUTY MANAGER PURCHASE DEPT



ENGINEERING AND PROJECT DEPARTMENT

MATERIAL REQUISITION

To,
Engg. Stores

Date : 18/11/2025

Through : HOD - E&P

Machine Name and Details : Multi Mill, m/c.

Section : NP-Section

Sl. No. : 2312

Following are the details :

Sl. No.	Item Code No.	Item Description	UOM	Qty.	Required Date	P.R. No. & Date	Remarks
1.		PLC LHMID. LED Display. RS 485, MODBUS. RTU, TWIX-2- 230V. Make - SELEC. TWIX-2-230V.	Nop	2.			Material required for Multi mill in NP-Section

JE / E/AM /DM/SM

DM (SKS)

SM (SRD)



48 x 96 mm

Features :

- Compact PLC with built-in HMI
- Configurable LED display
- RS485 based communication with MODBUS Protocol

Display Specifications

Display	7 segment LED
Digits	(4 + 4) Red + 6 Green digits
LED bank	4 Red LED's, 4 Green LED's
No. of Keys	5 keys (4 user configurable)

Input Specifications

Digital Input	
Digital Inputs	6 + 2 (Including fast Input & Analog Input Configurable as Digital Input)
Input Type	PNP
Input Voltage Range	6 - 30V DC
Response Time	Typical 2 mSec (Based on ladder scan time) & 100 μ Sec for fast Input
Debounce Time	0 to 255 mSec (Default 10 mSec)
Fast Input	
Input Type	PNP
No. of fast Input channels	1
Max Speed	5kHz
Analog Input	
No. of channels	6 [2 (TC / RTD), 2 (0 - 10V DC), 2 (0 - 20mA DC)]
Sensors	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL, PT100 mVolt (-5 to 65mV), 0 - 10V, 0 - 20mA
Resolution	12 bit
Accuracy	0.25% $\pm$ 1°C (TC), 0.1% $\pm$ 1°C (RTD) at 25°C $\pm$ 0.25% of FS, $\pm$ 1 count for AIs
Conversion time	100 ms

Output Specifications

Digital Output - Relay	
Digital Outputs	5 (NO type with 2 COM point)
Contact Rating	5A @ 240V AC (Resistive) 5A @ 28V DC (Resistive)
Response Time	10 mSec
Mechanical endurance	5 x 10 ⁵
Isolation	No
Analog Output	
No. of Channels	1 (Selectable)
Output Range	Current (0 - 20mA DC) / Voltage (0 - 10V DC)
Resolution	12 Bit
Digital Resolution	0.0 - 100.0% = 0.0 - 10.000V = 0.0 - 20.000mA

Conversion time	20 ms
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Communication

Communication Port	RS485 [Slave]
Communication Protocol	MODBUS RTU
Connector	Screw Terminal
Transmission Mode	Half duplex
Transmission Speed	9600, 19200, 38400, 57600, 115200
Data Bits	7 or 8
Parity	None, Odd, Even, Space, Mark
Stop Bits	1 or 2
Settable Slave	1D - 1 - 255

Functional Specifications

Programming Method	Windows based software for ladder programming and HMI configuration
Memory	Data memory : 16 KB
	Code memory : 240 KB
	EEPROM Memory : 1 KB
Max. no. of Objects	2000 (As per memory)
Minimum Scan Time	200 μ Sec
Typical Scan Time	2 ms (Based on ladder scan time)

Environmental Specifications

Operating Temperature	0 to 55°C
Storage Temperature	-20 to 70°C
Humidity (non-condensing)	10% to 95% RH

Mechanical Specifications

Mounting	Panel
Weight	240 gms approx

Functional Features

Timer Operational Modes	On Delay, Off Delay, Pulse, Special [Up / Down] Timer, 1ms Timer*
Timer Resolution	1 ms (Accurate only for 1 msec Timer block)
Counter	Up Counter, Down Counter, Up / Down Counter, Special [Up / Down] Counter
Other Blocks	Analog input & output, FTC, PID, Ramp soak
Memory Retention	10 years (2k memory)
RTC	No

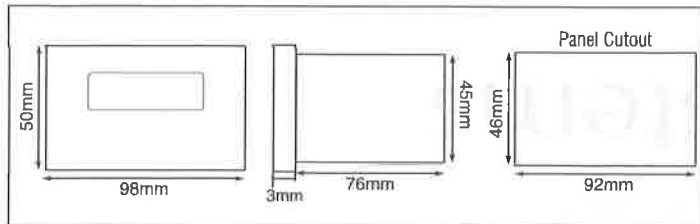
*Usage limited to only 4 Nos

Supply Specification

Supply Voltage	90 to 270V AC 50 / 60 Hz / 18 -28 VDC
Power Consumption	6W Max
Source	12V, 50mA

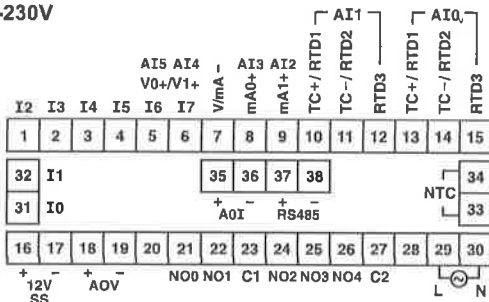
VAR IN_OUT & VAR OUTPUT types Variables Maximum Retention 25 variables only each of 32 bit @ 110V AC & 24V DC

Dimensions (In mm)



Terminal Connection

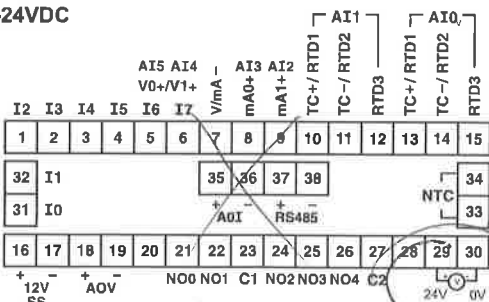
TWIX-2-230V



www.selec.com

MADE IN INDIA

TWIX-2-24VDC



www.selec.com

MADE IN INDIA

Ordering Information

Product Code	Description	Certification
TWIX-2-230V	6DI, 5RO, 6AI (2TC/RTD, 2I, 2V/2DI), 1AO(V/I) -230VAC	CE RoHS in Process ✓
TWIX-2-24VDC	6DI, 5RO, 6AI (2TC/RTD, 2I, 2V/2DI), 1AO(V/I) - 24VDC	CE RoHS in Process

Accessories (To be ordered separately)

Downloading cable	AC-USB-RS485-02
Power Supplies	RPS60-24-CE-RoHS
Relay modules	
1) RLYMD-1-S4-1CO-24VDC	4 Channel 1 change over relay module
2) RLYMD-1-S4-2CO-24VDC	4 Channel 2 change over relay module
3) RLYMD-2-S8-1CO-24VDC	8 Channel 1 change over relay module
4) RLYMD-2-S8-2CO-24VDC	8 Channel 2 change over relay module
5) ERLYMD-2-1-S8-1CO-24VDC	8 Channel 1 change over communication based relay module
	ACH-004 (RJ25 Cable)
Networking	
	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-03 (USB to RS485 Cable)