selec

Flexys Panel TX4
Operating Instructions

FEATURES

- Flexible card selection
- Compact PLC with built-in HMI
- 4 line x 16 characters LCD display
- Windows based user friendly software for ladder programming & HMI configuration
- RTC with Time Switch function (Optional)
- RS 485 based communication with MODBUS Protocol

99 x 95.6 x 90.5mm

SPECIFICATIONS

Display	LCD(backlight) 4 line x 16 Character, Font size 5 x 7mm
No. of Keys	18 (10 numeric keys) -14 User Configurable
RTC	Yes
Supply Voltage	1)230VAC(90-270V) 2)24VDC(18-26V)
Sensor Supply(SS)	10V (100mA) Available only in 230V power supply card
IO Card Slots	4 (max)

DIGITAL INPUT (Max. counting frequency 50Hz)

Input Type	PNP
Input Voltage Range (V+)	7-30V DC
Response Time (Inputs other than fast counter)	10ms max
Isolation	2.5 kV

FAST COUNTER INPUT (on power supply card only)

Input Type	PNP
No. of Digital Input	4 (uni) / 2(Bi / Quad) / 4 Standard Digital Input
Operating Modes / Frequency	Unidirectional / Bidirectional / Quadrature Modes / Dual Uni (5kHz for all)

CH	DI	MODE			
		UNI	BI	QUAD	DUAL UNI
CH0	I0	RT	RT	1st IP *	RT
	I1	STD IP	Direction	2nd IP *	T
CH1	I2	RT	RT	1st IP *	RT
	I3	STD IP	Direction	2nd IP *	T

DIGITAL OUTPUT - RELAY

Contact Rating	NO Type : 8ch (5A resistive @ 230V AC) 8ch (5A resistive @ 30V DC)
Isolation	2.5 kV
Initial Max. Contact Resistance	100mΩ (@1A, 6V DC)
Switching Time	20ms max.

Note : Maximum limit for no. of FL-SC-RO08 cards is 2.(Applicable only for 230v power supply card)

DIGITAL OUTPUT - TRANSISTOR

Transistor Rating	PNP Type : 24V,100 mA
Switching Time	10ms max.

*** 90° Phase shift signals ; RT - Rate Totalizer ; T - Totalizer ; STD IP - Standard Input**

ANALOG INPUT

Sensors	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL II, RTD, MVOLT(0-60mV), VOLT (0-10V), CURR (0-20mA)		
Resolution	12 bits	0 - 10V	2.5mV
		0 - 20mA	5μA
		TC / RTD	0.1°C (Note : 1°C for R & S type)
Conversion Time	100 msec.		
Accuracy at 25°C	0.25% of full scale		

ANALOG OUTPUT

Output Type	**Current** - 0-20 mA ; **Voltage** - 0-10 V
Resolution	14 bits
Conversion Time	10 msec.
Linearity Error	0.1%

COMMUNICATION

Communication Port - Port 1	1 : RS485 Slave 2 : RS485 Master for O610 Expansion Module (Optional) 3 : Proprietary for O630 Expansion Module (Optional)
Communication Protocol	MODBUS RTU, Proprietary Protocol for IO630 expansion port

ENVIRONMENTAL CONDITIONS

Temperature	Operating : 0 to 55°C ; Storage : -20 to 70°C
Humidity (non-condensing)	10% to 95% RH
Enclosure	Panel Mounted
Weight	329.2gms (without IO Cards)

INSTALLATION PROCEDURE

Fig. A

Fig. B

Fig. C

Fig. D

A. Card order as viewed from back, left to right
1. **Slot 1 IO Card**
2. **Slot 2 IO Card**
3. **Slot 3 IO Card**
4. **Slot 4 IO Card**

B. Mount the slot card on the PLC slot by pressing the latch, refer fig. A
C. Slide the slot card in the PLC, refer fig. B
Note : The slot card will slide easily if it was mounted properly
D. Ensure that the latch is fitted properly inside the lock, refer fig. C side view
E. Place the lock plate to cover the Latch, refer fig. D

SAFETY PRECAUTIONS

This manual is meant for personnel involved in wiring installation, operation and routine maintenance of the equipment. All safety related conditions, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure operator and instrument safety. Any misuse may impair the protection provided by the equipment.

Read complete instructions prior to installation and operation of the unit. Risk of electric shock.