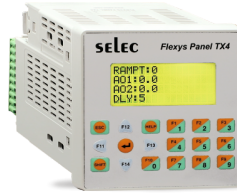


Flexible IO Solution



FLEXYs GT35
Size : 99 x 95.6 x 90.5mm



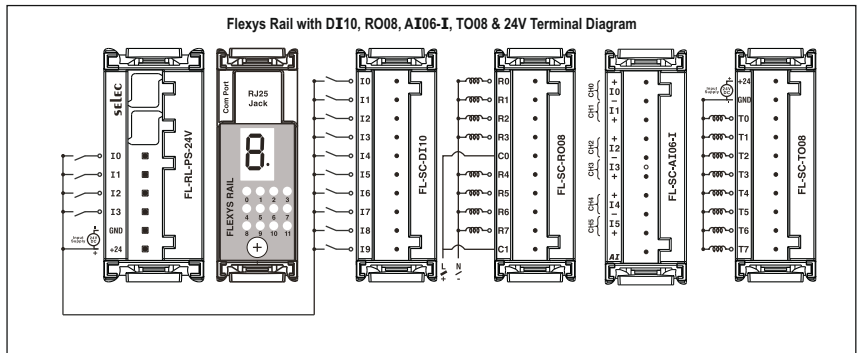
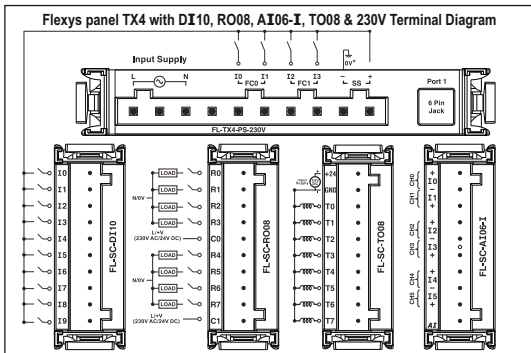
FLEXYs PANEL TX4
Size : 99 x 95.6 x 90.5mm



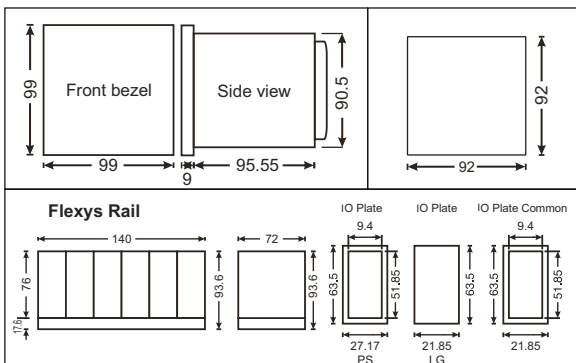
FLEXYs RAIL
Size : 140 x 93.4 x 72mm

FEATURES	<ul style="list-style-type: none"> • 3.5" LCD with Touch Screen • Flexible I/O Card selection • Real Time Clock • Expandable 	<ul style="list-style-type: none"> • PLC with built in HMI • Flexible I/O Card selection • Real Time Clock • Expandable 	<ul style="list-style-type: none"> • PLC with Flexible I/O Card Selection • Real Time Clock • Expandable
DISPLAY	TFT 3.5" diagonal Touch screen, Resolution 320x240	LCD with Backlight, 4x16 Character display, Font size 5x7mm	7 segment display for slot number & card status. Multipurpose LED Bank
NO. OF KEYS	5 function keys +1 System Key	18 keys (14 user configurable)	One key to scroll through different slots
I/Os	3 I/O slots (Please refer I/O card for Flexys series)	4 I/O slots (Please refer I/O card for Flexys series)	
DIGITAL INPUTS	4 / 10 / 14 per card, PNP (6 to 30V DC)		
MAXIMUM COUNTING FREQUENCY	FC0 (I0 & I1) & FC1 (I2 & I3) - 5KHz (on power supply card only), Normal Digital Inputs - 30Hz		
ANALOG INPUTS	3 / 4 / 6 Channels per card (TC, RTD, 0-10V, 0 to 20mA)		
RESOLUTION	12 Bit		
RELAY OUTPUTS	4 / 8 per card, NO type 5A @ 230V AC / 30V DC (Resistive)		
TRANSISTOR OUTPUTS	8 per card, Source type 100mA @ 24V DC		
ANALOG OUTPUTS	2 / 4 Channels per card (0 - 10V, 0 - 20mA)		
RESOLUTION	14 Bit (0.0 to 100.0% = 0 to 10.000V, 0.0 to 100.0% = 0 to 20.000mA)		
PROGRAM MEMORY	221K	351K	
EXPANSION	Yes		
COMMUNICATION INTERFACE	RS485 MODBUS RTU Protocol	RS485 MODBUS RTU, Proprietary Protocol	
RTC	Yes		
SUPPLY VOLTAGE	24V DC, 230V AC 50 / 60Hz		

Terminal Diagram



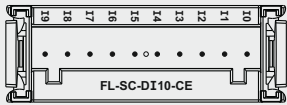
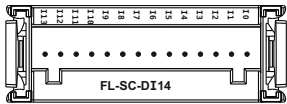
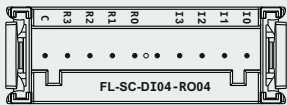
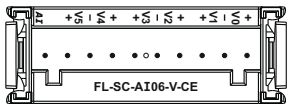
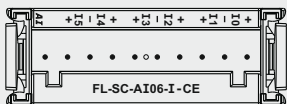
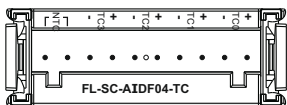
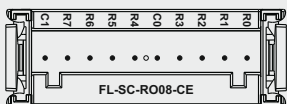
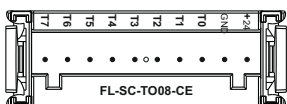

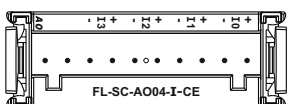

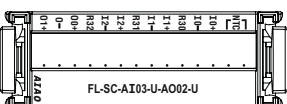
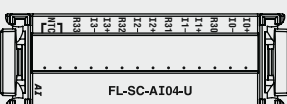
Dimensions (All are in mm)



Ordering Information

PRODUCT CODE	CERTIFICATION
FL-GT35-DI04-PS-230V	---
FL-GT35-DI04-PS-24V	---
FL-GT35-DSP	---
FL-GT35-LG-1-0-1	---
FL-TX4-DI04-PS-230V-CE	CE RoHS
FL-TX4-DI04-PS-24V-CE	CE RoHS
FL-TX4-LG-1-1-1-CE	CE RoHS
FL-RL-DI04-PS-24V-CE	CE RoHS
FL-RL-BS-6-CE	CE RoHS
FL-RL-LG-1-1-1-CE	CE RoHS
FL-RL-PS-230V	---

Add ons - PLC IO's

ORDER CODE	DESCRIPTION	TERMINAL CONNECTION	CERTIFICATION
FL-SC-DI10-CE	10DI (10 Digital Inputs)		CE RoHS
FL-SC-DI14	14DI (14 Digital Inputs)		CE RoHS in process
FL-SC-DI04-RO04	4 Digital Inputs & 4 Relay Outputs		CE RoHS in process
FL-SC-AI06-V-CE	6 Analog Inputs (0-10V)		CE RoHS
FL-SC-AI06-I-CE	6 Analog Inputs (0-20mA)		CE RoHS
FL-SC-AIDF04-TC-CE	4 Channel Thermocouple Analog Inputs Differential type		CE RoHS
FL-SC-RO08-CE	8 Relay Outputs		CE RoHS
FL-SC-TO08-CE	8 Transistor Outputs		CE RoHS
FL-SC-AO04-V-CE	4 Analog Outputs (0-10V)		CE RoHS
FL-SC-AO04-I-CE	4 Analog Outputs (0-20mA)		CE RoHS
FL-SC-LC04	4 Channel Load Cell Card		CE RoHS in process
FL-SC-AI03-U-AO02-U	3 Universal Analog Inputs, 2 Universal Analog Outputs		CE RoHS in process
FL-SC-AI04-U	4 Universal Analog Inputs		CE RoHS in process

Compact Series



DIGIX-1
Size : 70 x 90mm



DIGIX-2-1-0-24VDC
Size : 70 x 90mm

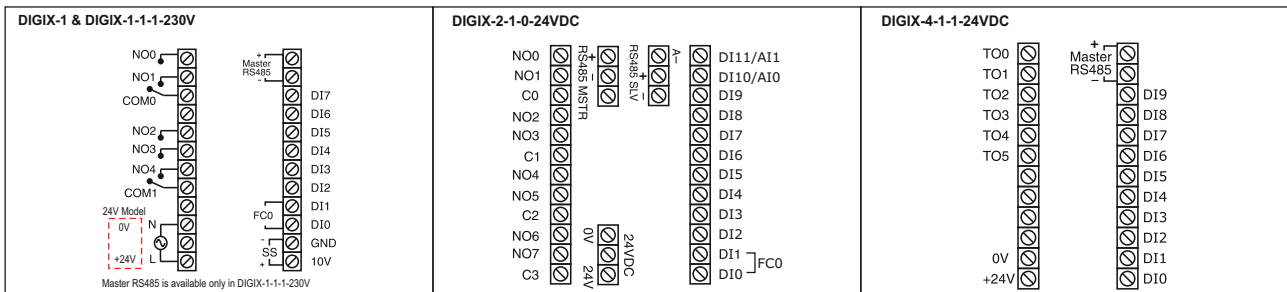


DIGIX-4-1-1-24VDC
Size : 70 x 90mm

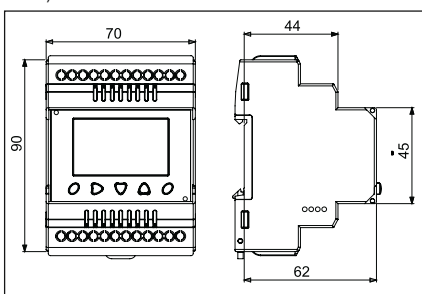
FEATURES	<ul style="list-style-type: none"> • Compact PLC with built in HMI • 2 Line 8 Character LCD • Real Time Clock • RS485 Communication MODBUS RTU Protocol 		
	DISPLAY 2 X 8 Character LCD		
NO. OF KEYS	5 keys (4 - User configurable)		
DIGITAL INPUTS	8	10 + 2*	10
INPUT TYPE	PNP (6 - 30V DC)		
MAXIMUM COUNTING FREQUENCY	FC0 (I0 & I1) - 5KHz, Normal Digital Input: 30Hz		
ANALOG INPUTS	NA	Through Expansion	2 Channels (0 to 10V) Through Expansion
RESOLUTION	12 Bit		
DIGITAL OUTPUTS	5 Relay		6 Transistor
TYPE & RATING	5A NO type @ 230V AC / 30V DC (Resistive)		Source 100mA @ 24V DC
ANALOG OUTPUTS	NA	Through Expansion	
RESOLUTION	As per expansion model		
RTC	NO	YES	NO YES
EXPANSION	YES		
PROGRAM MEMORY	112K		240K
COMMUNICATION INTERFACE	RS485 Modbus RTU Protocol		
SUPPLY VOLTAGE	18 to 30V DC**, 100 to 270V AC / DC 50 / 60Hz.	100 to 270V AC / DC 50 / 60Hz.	18 to 30V DC

*Voltage Analog Inputs can be configured as Digital Inputs **Please refer Datasheet for exact Order code

Terminal Diagram



Dimensions (All are in mm)



Ordering Information

PRODUCT CODE	CERTIFICATION
DIGIX-1-230V	--
DIGIX-1-0-0-24V	--
DIGIX-1-1-1-230V	--
DIGIX-2-1-0-24VDC	--
DIGIX-4-1-1-24VDC	--

Compact Series



TWIX-1
Size : 48 x 96mm

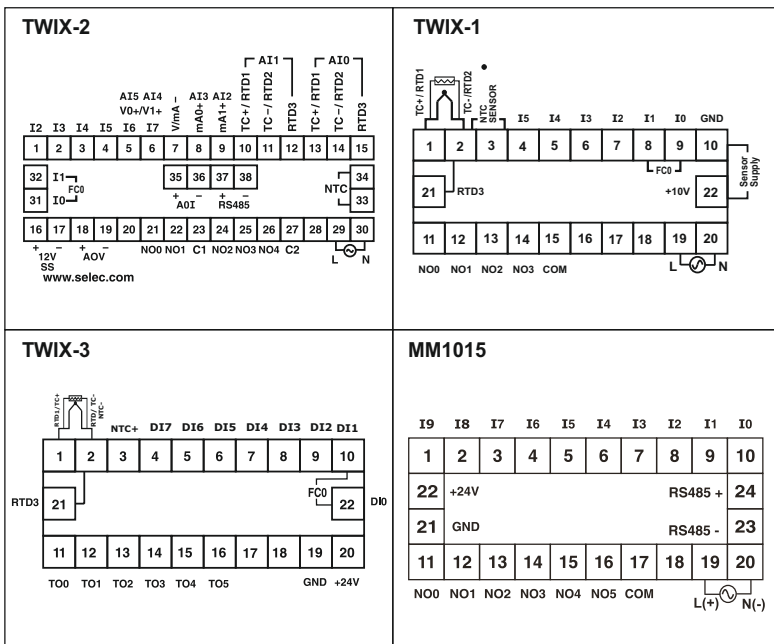
TWIX-2
Size : 48 x 96mm

TWIX-3
Size : 48 x 96mm

MM1015
Size : 48 x 96mm

FEATURES	<ul style="list-style-type: none"> Compact PLC with built in HMI Configurable LED display RS485 Communication MODBUS RTU Protocol 			<ul style="list-style-type: none"> Compact PLC with built in HMI RS485 Communication MODBUS RTU Protocol
DISPLAY	4 + 4 digits Red & 6 Green digits 7 Segment LED			3 + 4 digits Red & 4 Green digits 7 Segment LED
NO. OF KEYS	5 keys (4 - User configurable)			
DIGITAL INPUTS	6	6 + 2*	8	10
INPUT TYPE	PNP (6 to 30V DC)			PNP (11 - 30V DC)
MAXIMUM COUNTING FREQUENCY	FC0 (I0 & I1) - 5KHz, Normal Digital Input: 30Hz			Normal Digital Input: 30Hz
ANALOG INPUTS	1 Channel (TC / RTD)	6 Channels 2 (TC / RTD), 2 (0 to 10V), 2 (0 to 20mA)	1 Channel (TC / RTD)	NA
RESOLUTION	12 Bit			
DIGITAL OUTPUTS	4 Relay	5 Relay	6 Transistor	6 Relay
TYPE & RATING	5A NO type @ 230V AC / 30V DC (Resistive)		Source 100mA @ 24V DC	5A NO type @ 230V AC / 30V DC (Resistive)
ANALOG OUTPUTS	NA	1 Channel (0 to 10V / 0 to 20mA)	NA	NA
RESOLUTION	12 Bit			
RTC	NO			
EXPANSION	NO			
PROGRAM MEMORY	112K	240K	112K	224KB
COMMUNICATION INTERFACE	RS485 Modbus RTU Protocol			
SUPPLY VOLTAGE	18 to 30VDC**, 100 to 270V AC / DC 50 / 60Hz.	100 to 270V AC / DC 50 / 60Hz.	18 to 30V DC	100 to 270V AC 50 / 60Hz without retention 180 to 270V AC, 50 / 60Hz with retention

*Voltage Analog Inputs can be configured as Digital Inputs **Please refer Datasheet for exact Order code



Fixed IO Solution



MM3030-1
Size : 96 X 96 mm

MM3030-2
Size : 96 X 96 mm

MM3030-4
Size : 96 X 96 mm

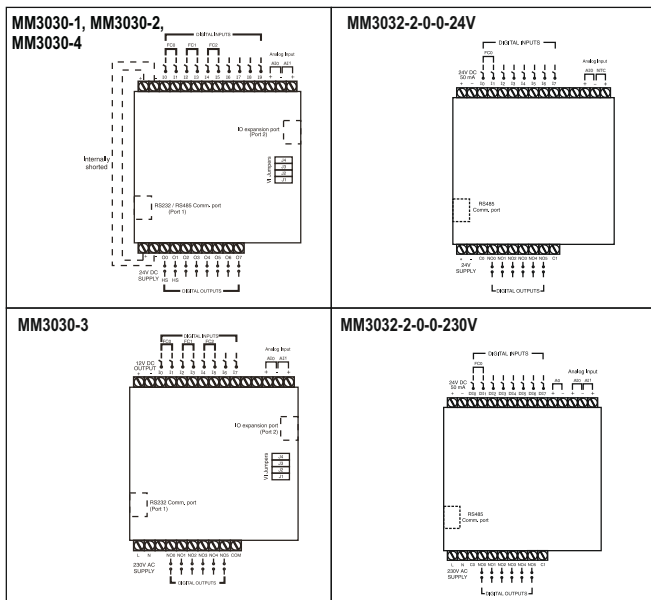
MM3030-3
Size : 96 X 96 mm

MM3032-2-0-0-24V
Size : 96 X 96 mm

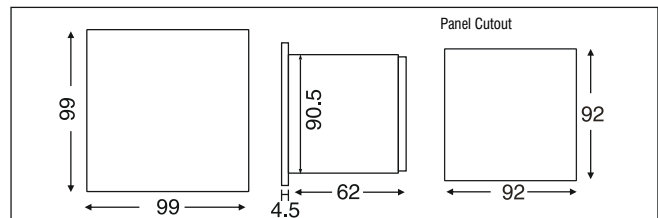
MM3032-2-0-0-230V
Size : 96 X 96 mm

FEATURES	MM3030-1, MM3030-2, MM3030-4			MM3030-3, MM3032-2-0-0-24V, MM3032-2-0-0-230V		
		<ul style="list-style-type: none"> • Low Cost • Panel / Din Rail Mounting • Fast Inputs / Outputs • Windows based User Friendly Software for Ladder Programming and HMI Configuration 			<ul style="list-style-type: none"> • Compact PLC with built-in HMI • 2 line x 16 characters LCD Display • Panel / Din Rail Mounting • Windows based User Friendly Software for Ladder Programming and HMI Configuration 	
DISPLAY	4x16 Character LCD			2x16 Character LCD		
NO. OF KEYS	15 Keys (12 User Configurable)			8 Keys (6 User Configurable)		
DIGITAL INPUTS	10 PNP (11 to 30V DC)			8 PNP (6 to 30V DC)		
MAXIMUM COUNTING FREQUENCY	FC0 (I0 & I1) – 12KHz, FC1 (I2 & I3) & FC2 (I4 & I5) – 7.5KHz Normal Input – 30Hz.			FC0 (I0 & I1), FC1 (I2 & I3) & FC2 (I4 & I5) – 7.5KHz Normal Input – 30Hz.		
ANALOG INPUTS	2 Channel (0 to 10V or 0 to 20mA) selectable via jumpers			2 Channels (NTC & 0 to 20mA)		2 Channels (0 to 20mA)
RESOLUTION	10 Bit			12 Bit		
DIGITAL OUTPUTS	8 Transistor			6 Relay		
TYPE AND RATING	O0 - O1 - Sink 50mA @ 24V DC (Fast Outputs 50KHz) O2 - O7 - Source 100mA @ 24V DC			3A NO type @ 230V AC / 30V DC (Resistive)		5A NO type @ 230V AC / 30V DC (Resistive)
ANALOG OUTPUTS	Through Expansion			NA		1 Channel (0 to 10V)
RESOLUTION	As per expansion modules			14 Bits (0.0% to 100.0% = 0 – 10.000V)		
RTC	YES			NO		
EXPANSION	YES			NO		
PROGRAM MEMORY	351K			240K		
COMMUNICATION INTERFACE SLAVE	RS232 MODBUS RTU Protocol	RS485 MODBUS RTU Protocol		RS232 MODBUS RTU Protocol	RS485 MODBUS RTU Protocol	
COMMUNICATION INTERFACE MASTER	Proprietary Protocol	Proprietary Protocol & RS485 MODBUS RTU Protocol	RS485 MODBUS RTU Protocol	Proprietary Protocol	NA	
SUPPLY VOLTAGE	18 – 30V DC			100 to 270V AC 50 / 60Hz without retention 180 to 270V AC, 50 / 60Hz with Retention	18 – 30V DC 100 to 270V AC 50 / 60Hz without retention 180 to 270V AC, 50 / 60Hz with Retention	

Terminal Diagram



Dimensions (All are in mm)



Ordering Information

PRODUCT CODE	CERTIFICATION
MM3030-1	--
MM3030-2	--
MM3030-3-P1	--
MM3030-4	--
MM3032-2-0-0-230V	--
MM3032-2-0-0-24V	--

Human Machine Interface



SP11-GT70
Size : 214 x 160mm

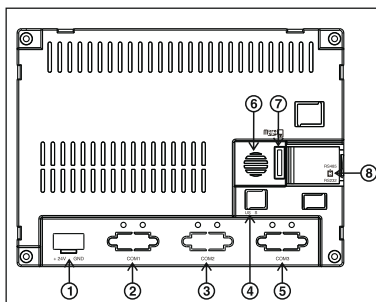


SP3-GT35
Size : 96 x 96mm

FEATURES	<ul style="list-style-type: none"> • 7" LCD with Resistive Touchscreen • 10 Password Levels • Serial Printing • Data Logging • Built in Buzzer • Recipe Management 	<ul style="list-style-type: none"> • 3.5" LCD with Resistive Touchscreen • 10 Password Levels • Serial Printing • Data Logging • Built in Buzzer • Recipe Management
DISPLAY	7" Diagonal	3.5" Diagonal
TOUCHSCREEN	Yes (Resistive)	
RESOLUTION	800 x 480 pixels	320 x 240 pixels
BACKLIGHT	LED Backlight	
USER MEMORY	16 MB	
DATA LOGGING	2 GB (External SD Card)	
COMMUNICATION PORT 1	Master Port - RS485 MODBUS RTU Protocol	Master Port - RS485 MODBUS RTU Protocol
COMMUNICATION PORT 2	Slave Port - RS485 / RS232 MODBUS RTU Protocol (selectable via jumper)	Slave Port - RS232 MODBUS RTU Protocol
COMMUNICATION PORT 3	Serial Printer ESC/P Protocol	
USB SLAVE	USB 2.0	NA
KEYS	7 Function keys + 1 System Key	5 Function keys + 1 System Key
RTC	Yes	
BACKUP BATTERY	3V CR2032	
OPERATING TEMPERATURE	0° to 55° C	
STORAGE TEMPERATURE	-30° to 80° C	
SUPPLY VOLTAGE	18 to 30V DC	

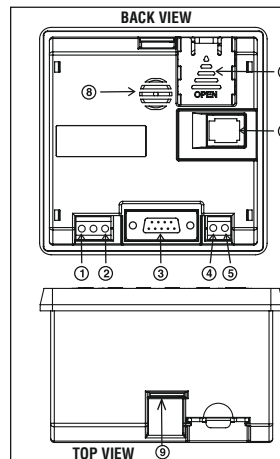
Terminal Diagram

SP11-GT70



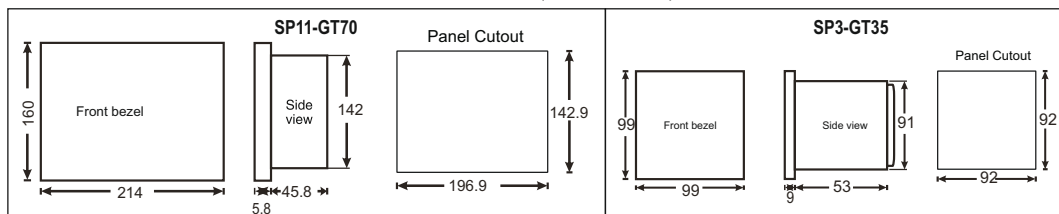
Sr. No.	Description
①	Supply terminal
②	COM1
③	COM2
④	USB slave port
⑤	COM3
⑥	Buzzer
⑦	Micro SD Card Slot
⑧	Jumper for RS232/RS485 slave

SP3-GT35



Sr. No.	Description
①	+24V
②	GND
③	Slave Port
④	(-) RS485 Master Port
⑤	(+) RS485 Master Port
⑥	Printer Port
⑦	Battery Cover
⑧	Buzzer
⑨	SD Card Slot

Dimensions (All are in mm)



Ordering Information

PRODUCT CODE	CERTIFICATION
SP11-GT70-V2	--
SP3-GT35	--

Add on - PLC IO's



EXP FLEX 2M
Size : 35 x 90mm



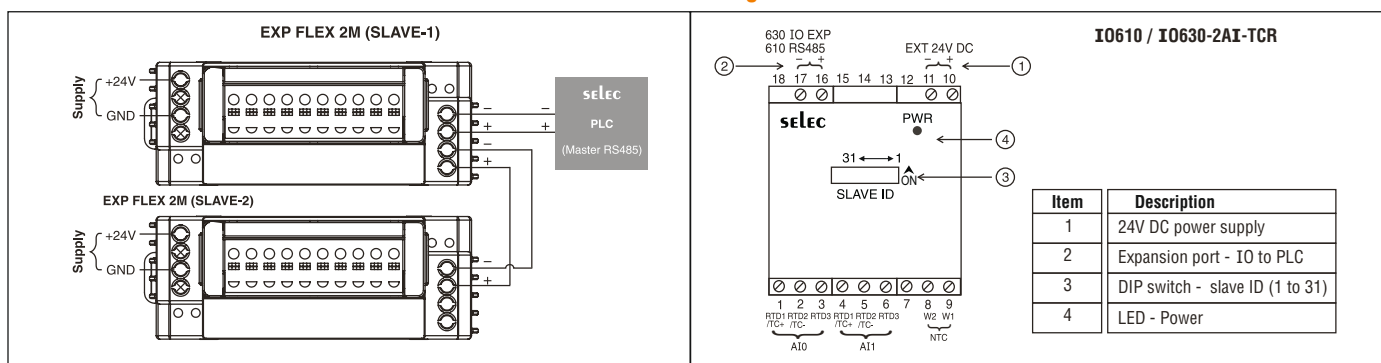
IO610
Size : 53 x 90mm



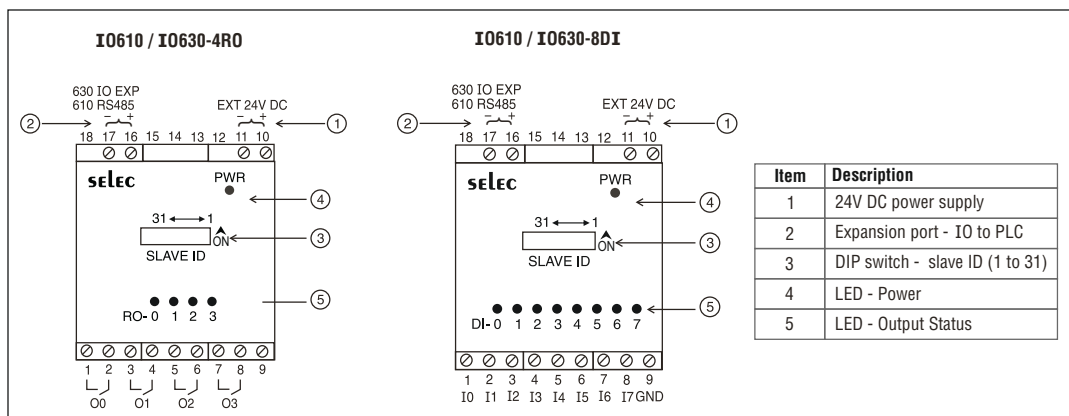
IO630
Size : 53 x 90mm

FEATURES	<ul style="list-style-type: none"> Any Flexys card can be Configured Selectable baudrate and Slave ID 	<ul style="list-style-type: none"> Can be used as independent I/O modules through RS485 Modbus RTU 	<ul style="list-style-type: none"> High Speed Communication between PLC and Expansion through Proprietary Protocol
DISPLAY	LED indication for Power ON and Communication Status	LED indication for Power On and Digital I/O status	
DIGITAL INPUTS	4 / 10 / 14 per card PNP (6 to 30V DC)	8 per module (11 to 30V DC)	
ANALOG INPUTS	3/4/6 Channels per card (TC, RTD, 0 to 10V, 0 to 20mA)	2 Channels per module (TC, RTD, 0 to 10V, 0 to 20mA)	
RESOLUTION	12 Bit		
RELAY OUTPUTS	4 / 8 per card. NO type 5A @ 230VA C / 30V DC (Resistive)	4 per module, NO type 5A @ 230V AC / 30V DC (Resistive)	
TRANSISTOR OUTPUTS	8 per card. Source type 100mA @ 24V DC	4 per module, Source type 100mA @ 24V DC	
ANALOG OUTPUTS	2 / 4 Channels per card (0 to 10V, 0 to 20mA)	2 Channels per module (0 to 10V, 0 to 20mA)	
RESOLUTION	14 Bit (0.0 – 100.0% = 0 – 10.000V, 0.0 – 100.0% = 0 – 20.000mA)	12 Bit (0.0-100.00% = 0 - 10.00V, 0.0-200.00% = 0 -20.00mA)	
RESPONSE TIME	100 mSec to 2 Sec + IO card Response	35 mSec	200 µSec
BAUDRATE	19200 / 115200 bps (Selectable)	19200 bps	500 Kbps
COMMUNICATION INTERFACE	RS485 Proprietary Protocol	RS485 MODBUS RTU Protocol	Proprietary Protocol
SUPPLY VOLTAGE	24V DC		

Terminal Diagram



Ordering Information



PRODUCT CODE	CERTIFICATION
EXP-FLEX 2M	--
IO610-8DI	--
IO610-4RO	--
IO610-4TO	--
IO610-2AI-TCR	--
IO610-2AI-VI	--
IO610-2AO	--
IO630-8DI	--
IO630-4RO	--
IO630-4TO	--
IO630-2AI-TCR	--
IO630-2AI-VI	--
IO630-2AO	--

Data Converters



FEATURES	<ul style="list-style-type: none"> • Port Powered • Communication status available as LED Indication 		<ul style="list-style-type: none"> • Web Configuration Telnet Protocol • TCP / IP Protocol 	
	LED indication for Tx & Rx			
DISPLAY	LED indication for Power ON, Tx and Rx, & Ethernet Communication			
SERIAL INTERFACE	RS232 MODBUS RTU Protocol	RS485 MODBUS RTU Protocol		
CONNECTOR	DB9	RJ25 (6Pin)	2 open wires	DB9
USB INTERFACE	USB 2.0 Compliance			NA
CONNECTOR	USB Type A			NA
ETHERNET INTERFACE	NA			TCP / IP, Telnet Protocol
CONNECTOR	NA			RJ45 (8 Pin)
TRANSMISSION SPEED	2400 to 115000 bps			RS485 : 300 to 115000 bps Ethernet :10 / 100 Mbps
CABLE LENGTH	1 Meter	3 Meter		NA
POWER CONSUMPTION	75mA @ 5V			0.5 W
SUPPLY VOLTAGE	Port powered			12 to 30V DC

ACCESSORIES

Connecting Links



AC-IOEXP-03



AC-IOEXP-01



ACH-002



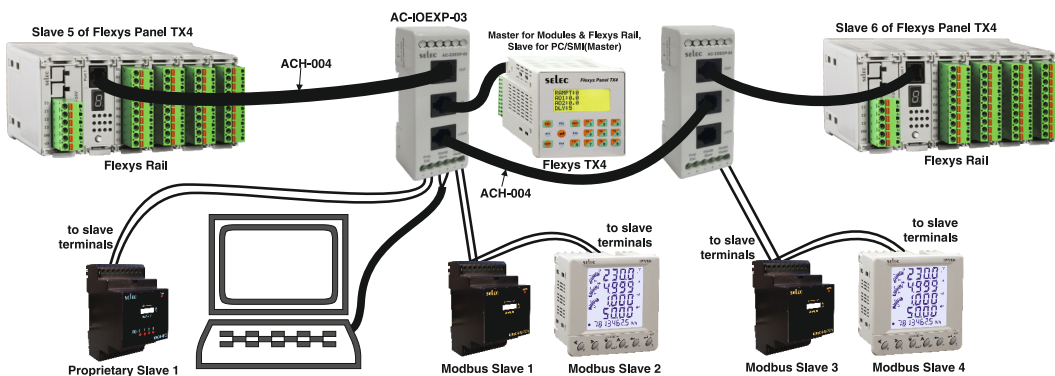
ACH-004



ACH-003

DESCRIPTION	Adapter for directing RJ25 to open terminal and also for network looping	Expansion adaptor for MM303X PLCs	DB9 to RJ25 cable	Both Side RJ25 type Connector	Both Side RJ45 Type Connector
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Ordering Information



PRODUCT CODE	CERTIFICATION
AC-USB-RS232-01	--
AC-USB-RS485-02	--
AC-USB-RS485-02-3M	--
AC-USB-RS485-03	--
AC-S2E-01	--
AC-IOEXP-03	--
AC-IOEXP-01	--
ACH-004	--
ACH-002	--
ACH-003	--

Relay Modules



RLYMD-1-S4-1C0-24VDC



RLYMD-2-S8-1C0-24VDC



RLYMD-1-S4-2C0-24VDC



RLYMD-2-S8-2C0-24VDC



ERLYMD-2-1-S8-1C0-24V

FEATURES	<ul style="list-style-type: none"> LED and Freewheeling Diode Across Coils Reverse Polarity Protection Jumpers for Coil Looping Pluggable Relays 				<ul style="list-style-type: none"> Selectable Baudrate and Slave ID Pluggable Relays 	
	CONTACTS	1 C/O		2 C/O		1 C/O
NO. OF CHANNELS	4	8	4	8	8	
CONTACT RATING	10A @ 277V AC / 30V DC (Resistive)					
NOMINAL VOLTAGE	24V DC					
MUST VOLTAGE	18V DC					
MAX VOLTAGE	33V DC					
OPERATE TIME	15mSec					
RESET SETTIME	5mSec					
COIL TO CONTACT DIELECTRIC STRENGTH	5000V AC for 1min					
OPEN CONTACT DIELECTRIC STRENGTH	1000V AC for 1min					
COMMUNICATION PROTOCOL	NA				RS485 MODBUS RTU	
STATUS DISPLAY	LED indication for Relay ON Status				LED Indication for Relay ON Status, Power ON & Communication Status	
SUPPLY VOLTAGE	NA				24V DC	

Terminal Diagram

RLYMD-2-S8-2CO-24VDC

For Negative looping of coils place jumpers at 0-,1-,2-,...7-
 For Positive looping of coils place jumpers at 0+,1+,2+,...7+
 For isolated coils place jumpers at BERG5 & BERG6

ERLYMD-2-1-S4-1C0-24V

04	01	02	14	11	12	24	21	22	34	31	32	44	41	42	54	51	52	64	61	62	74	71	72
1NO	1C	1NC	2NO	2C	2NC	3NO	3C	3NC	4NO	4C	4NC	5NO	5C	5NC	6NO	6C	6NC	7NO	7C	7NC	8NO	8C	8NC

RLYMD-1-S4-2CO-24VDC

For negative looping of coils place jumpers at 0-,1-,2-,3-
 For Positive looping of coils place jumpers at 0+,1+,2+,3+
 For isolated coils place jumpers at BERG3

Ordering Information

PRODUCT CODE	CERTIFICATION
RLYMD-1-S4-1C0-24VDC	--
RLYMD-1-S4-2C0-24VDC	--
RLYMD-2-S8-1C0-24VDC	--
RLYMD-2-S8-2C0-24VDC	--
ERLYMD-2-1-S8-1C0-24V	--