

Meters | Appreciated the world over for performance and looks



- Multifunction Meters
- Energy Meters
- VAF Meters
- Digital Panel Meters-Voltage, Current, Frequency, Power factor

Applications:

Control Panels, Motor control centers, Mains panel distribution board, Building energy monitoring, HT & LT electrical system, Genset panels, Plant Monitoring & Control systems.



Digital / Analog Protection Relays | Phase, Voltage, Current, Frequency, Earth Leakage



- Earth Leakage Relay
- Current Protection Relay
- Voltage Protection Relay
- Phase Sequence Relay

Applications:

Starters, Control Panels, Machine Control, Oil Refineries, Steel Plant

PLC / HMI | Compact, Single Box, Powerful & expandable PLC + HMI solutions



Compact Single Box, Expandable PLC+HMI solutions

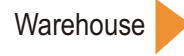
- Expandable PLCs with fast IO expansion
- PLCs with flexible card configuration

Applications:

Packaging, Pharmaceuticals, Water treatment, Temperature control, Polishing machines, Molding, Food industry, Battery charging, Screw compressor, Printing, Oil dispensers,



Company overview...



Electronic Manufacturing

SMT manufacturing Plant (4 lines)



Electronic Manufacturing

Assembly and Testing

Plastic Manufacturing

Injection Moulding
Printing



Multifunction Meter



MFM384
Panel Cutout : 92 x 92



MFM374
Panel Cutout : 92 x 92



MFM383A
Panel Cutout : 92 x 92

MODEL (Bezel Size)	MFM384 (96 x 96)	MFM374 (96 x 96)	MFM383A (96 x 96)
DISPLAY	Liquid crystal display (with backlight)	7 Segment LED display	Liquid crystal display (with backlight)
DIGITS	4 rows of 4 digits, Bargraph representation for current, 8 digits for energy	3 rows of 4 digits	3 rows of 4 digits, 7 1/2 digits for energy
INPUT TYPE	3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 2 wire		
RATED INPUT CURRENT	Nominal 5A AC (11mA min; 6A max)		
RESOLUTION	For energy- 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage & Current - Auto resolution For Power factor - 0.001		For energy- 0.1k, 1k (depending upon CT ratio X PT ratio) For Power, Voltage & Current - Auto resolution For Power factor - 0.001
CT PRIMARY	1A / 5A to 10,000A (programmable for any value)		
CT SECONDARY	1A or 5A (programmable)		
PT PRIMARY	100V to 500kV (programmable for any value)	100V to 10000V (programmable for any value)	
PT SECONDARY	100 to 500V AC (L-L) (programmable for any value)		
COMMUNICATION	RS485 MODBUS Communication (Optional) ¹		
SUPPLY VOLTAGE	100 to 240V AC, -15% +12%, 50/60 Hz (±5%)		
MEASURED PARAMETER	Voltage(L-L/L-N)(Individual/Average), Current(I1,I2,I3) (Individual / Average), Frequency, Power Factor (Individual / Total), Active, Reactive & Apparent power (Individual / Total) Active, Reactive ² & Apparent ² Energy (Total)		
MEASUREMENT RANGE	11 - 300V AC (phase to neutral), 19 - 519 V AC (phase to phase); Nominal 5A AC (11mA min; 6A max); 45-65 Hz		
CERTIFICATION	CE	CE	CE
ORDER CODE	MFM384, MFM384-C, MFM384-C-CU-G ³	MFM374, MFM374-CU	MFM383A, MFM383A-CU

Note: 1 Separate model available | 2 Not available in MFM383A | 3 For Grey product consult factory

VAF Meter



VAF36A
Panel Cutout : 92 x 92



VAF39A
Panel Cutout : 92 x 92



VAF39A-1
Panel Cutout : 92 x 92

MODEL (Bezel Size)	VAF36A (96 x 96)	VAF39A (96 x 96)	VAF39A-1 (96 x 96)
DISPLAY	Liquid crystal display (with backlight); Height: 0.56"	7 segment LED; Height: 0.56"	7 segment LED; Height: 0.56" integrated with parameter units
DIGITS	3 rows of 3 digits, Bargraph for current	3 rows of 3 digits	
INPUT TYPE	3 Ø - 3 wire, 3 Ø - 4 wire		
CT PRIMARY	5A to 10000A (programmable for any value)		
CT SECONDARY	5A fixed (External CT must be connected for current more than 5A)		
PT PRIMARY	100V to 500kV (programmable for any value)		
PT SECONDARY	100 to 500V AC (L-L) (programmable for any value)		
MEASURED PARAMETER	Voltage (L-L / L-N) (Individual / Average), Current (I1, I2, I3) (Individual / Average), Frequency, RPM, Run Hour		
MEASUREMENT RANGE	11 - 300V AC (phase to neutral), 19 - 519 V AC (phase to phase); Nominal 5A (Min-20mA, Max-6A), (for VAF39A-1: Min-30mA)		
SUPPLY VOLTAGE	230V AC ±20% (50/60 Hz), 110V AC ±20% (50/60 Hz)		
CERTIFICATION	CE	CE	—
ORDER CODE	VAF36A-230V-CE, VAF36A-230V-CU VAF36A-110V, VAF36A-110V-CU	VAF39A-230V-CE, VAF39A-230V-CU, VAF39A-110V-CU	VAF39A-1-230V

Energy Meter




EM306A

Panel Cutout : 92 x 92



EM368/EM368C

Panel Cutout : 92 x 92

MODEL (Bezel Size)	EM306A (96 x 96)	EM368/EM368-C (96 x 96)
DISPLAY / DIGITS	7 segment LED ; Height 14.2mm / 6 digits	LCD ; Height 10.5mm / 8 digits
INPUT TYPE	3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 2 wire	
RESOLUTION	0.01K, 0.1K, 1K & 10K (depending on CT ratio)	For energy- 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M, 10M (depending upon CT ratio X PT ratio) For Power - Auto resolution, For Power factor - 0.01
CT PRIMARY	1A / 5A to 10,000A (programmable for any value)	
CT SECONDARY	1A or 5A (programmable)	
PT PRIMARY	—	100V to 500kV (programmable for any value)
PT SECONDARY	—	100 to 500V AC(L-L) (programmable for any value)
MEASUREMENT	Active Energy (kWh)	Power (Active, Reactive) (Total) Energy (Active, Reactive , Apparent) (Total), Power factor (Individual & Average)
LED INDICATIONS	Integration of energy, Resolution is 10, Reverse connected CT warning	Integration of energy, Resolution is 10, Reverse connected CT warning (All Indications on LCD)
SUPPLY VOLTAGE	230V AC $\pm 20\%$ (50/60Hz)	100 to 240V AC, -15% +12%, 50/60 Hz ($\pm 5\%$)
CERTIFICATION	—	CE 
ORDER CODE	EM306A	EM368, EM368-CU, EM368-C, EM368-C-CU

Din Rail Multifunction Meter



MFM384-R-C

Panel Cutout : 92 x 46



MFM384-R-C-48V DC

Panel Cutout : 92 x 92

MODEL (Bezel Size)	MFM384-R-C	MFM384-R-C-48V DC
DISPLAY	3 row, Liquid Crystal Display with backlight	
DIGITS	Row 1 of 4 digits, Row 2 and 3 of 7 digits	
INPUT TYPE	1 Ø - 2 wire, 3 Ø - 3 wire, 3 Ø - 4 wire	
RATED INPUT VOLTAGE	19 to 519V AC, (Phase to Phase) 11 to 300V AC, (Phase to Neutral)	3.5 to 132V AC, (Phase to Phase) 2 to 76.2V AC, (Phase to Neutral)
RESOLUTION	45Hz - 65Hz	
RESOLUTION	For Energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M Depending upon CT ratio x PT ratio, For Power, Voltage, Current: Auto Resolution, For Power Factor: 0.01, Frequency: 0.1Hz	For Energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M, Depending upon CT ratio x PT ratio, For Power, Voltage, Current: Auto Resolution, For Power Factor: 0.01, Frequency: 0.1Hz
ACCURACY CLASS	Voltage (L-L / L-N), Current: $\pm 0.5\%$ Power Factor: ± 0.01 of full range, Frequency: 0.1% of full range Power (kW, kVA, kVAh) : 1% of full range Energy (Active, Reactive, Apparent) : 1% of full range	Voltage: $\pm 0.5\%$ of range, Current: $\pm 0.5\%$ of range Frequency: $\pm 0.15\%$ of mid frequency, Active Power: $\pm 0.5\%$ of range, Re-Active Power: $\pm 0.5\%$ of range, Apparent Power: $\pm 0.5\%$ of range, Apparent energy (kVAh): $\pm 0.5\%$ of range Active energy (kWh): $\pm 0.5\%$ of range, Re Active energy (kVAh): $\pm 0.5\%$ of range, Power Factor: $\pm 0.5\%$ of unity Angle: $\pm 0.5\%$ of range (0- 360 degree)
CT PRIMARY	5A to 10,000A (Programmable for any value)	
CT SECONDARY	1A/5A	
PT PRIMARY	100V to 500kV (Programmable for any value)	80V to 500kV (Programmable for any value)
PT SECONDARY	100V to 500V AC (L-L) (Programmable for any value)	80V to 140V AC (L-L) (Programmable for any value)
SUPPLY VOLTAGE	85 to 270V AC	DC: 30-60V DC ; AC: 18-36V AC
DISPLAY RESET	Programmable (for energy)	
MEMORY RETENTION FOR ENERGY	10 years	
COMMUNICATION	RS485 Modbus RTU communication in multi-drop mode	
TEMPERATURE	Operating : -5°C to $+60^{\circ}\text{C}$, Storage: -20°C to $+75^{\circ}\text{C}$	
POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC	DC: 30-60V DC ; AC: 18-36V AC
CERTIFICATION	CE	CE
ORDER CODE	MFM384-R-C	MFM384-R-C-48V DC

LED Ammeter



Cutout Size: 46 x 92 ; 67.5 x 67.5 ; 92 x 92

MODE (Bezel Size)	MA12 (48 X 96)	MA202 (72 X 72)	MA302 (96 X 96)	MA12-75mV-DC MA302-75mV-DC	MA12-20A-AC MA302-20A-AC	MA12-DC-2mA	MA12-AC-2/20mA
DESCRIPTION	Digital Ammeter						
DISPLAY	4 digit, 7 segment LED display					3½ digit, 7 segment LED display	
MEASUREMENT RANGE	50mA-5A AC (6.2A max)			0-75mV (0-5A), 6.2A max	20A direct	-1.999mA to +1.999mA	0- 1.999/19.99mA
ELECTRICAL CONNECTION	1Ø - 2 wire						
CT PRIMARY SETTINGS	5 to 4000 (Programmable in steps)			---	---	---	---
SHUNT SETTINGS				5 to 4000			
ACCURACY	± 0.5% of full scale				± 0.5% of full scale		
SUPPLY VOLTAGE	240V AC (±20% / ±10%), 50/60 Hz; 110V AC (±20% / ±10%), 60 Hz [†]						
CERTIFICATION	(Not applicable for MA302)				---		
ORDER CODE	MA12, MA12-CU MA12-110V, MA12-110V-CU	MA202, MA202-CU, MA202-110V, MA202-110V-CU,	MA302	MA12-75mV-DC MA12-75mV-DC-CU MA12-75mV-DC-110V MA12-75mV-DC-110V-CU MA302-75mV-DC	MA12-AC-20A MA12-AC-20A-110V, MA302-AC-20A	MA12-DC-2mA MA12-DC-2mA-CU MA12-DC-2mA-110V MA12-DC-2mA-110V-CU	MA12-AC-2/20mA MA12-AC-2/20mA-CU MA12-AC-2/20mA-110V MA12-AC-2/20mA-110V-CU
OTHER MODELS		---		MA12-50mV-DC MA12-50mV-DC-CU MA12-50mV-DC-110V MA12-50mV-DC-110V-CU MA12-100mV-DC MA12-100mV-DC-CU MA12-100mV-DC-110V MA12-100mV-DC-110V-CU	---	MA12-DC-20mA MA12-DC-20mA-CU MA12-DC-20mA-110V MA12-DC-20mA-110V-CU MA12-DC-200mA MA12-DC-200mA-CU MA12-DC-200mA-110V MA12-DC-200mA-110V-CU	MA12-AC-200/2000mA MA12-AC-200/2000mA-CU MA12-AC-200/2000mA-110V MA12-AC-200/2000mA-110V-CU

[†] Refer detail datasheet for tolerance

MODEL (BEZEL SIZE)	MA501; MA201 (48 X 48 ; 72 X 72)	MA2301 (72 X 72)
DESCRIPTION	Digital Ammeter	3Ø Ammeter with selector switch
DISPLAY	4 digit, Liquid Crystal Display with analog style bargraph indication	
MEASUREMENT RANGE	50mA - 5A AC (6.2A max)	
ELECTRICAL CONNECTION	1Ø - 2 wire	3Ø - 4 wire
ACCURACY	± 0.5% of F.S. (CT primary setting)	
CT PRIMARY SETTING	5 to 5000 (Programmable in steps)	
AUXILIARY SUPPLY	240 VAC (±20%), 50/60 Hz; 110VAC (±20%), 60 Hz	
CERTIFICATION		
ORDER CODE	MA501 : MA501, MA501-CU, MA501-110V, MA501-110V-CU MA201 : MA201, MA201-CU, MA201-110V, MA201-110V-CU	MA2301 : MA2301, MA2301-CU, MA2301-110V, MA2301-110V-CU

LCD Ammeter



MA2301
Cutout Size: 67.5 x 67.5



MA501
Cutout Size: 46.5 x 46.5

Power Factor / Frequency Meter



MF16 MF216 MP314
Cutout Size : 46 x 92 ; 67.5 x 67.5 ; 92 x 92

MODEL (Bezel Size)	MF16 ; MF216 ; MF316 (48 x 96 ; 72 x 72 ; 96 x 96)	MP14 ; MP214 ; MP314 (48 x 96 ; 72 x 72 ; 96 x 96)
DESCRIPTION	Frequency Meter	Power Factor Meter
DISPLAY	4 digit, 7 segment LED Display	
MEASUREMENT RANGE	45 - 65 Hz	0.25 - 6A (AC)
ACCURACY	± 0.05 Hz	± 0.5% ± 1 digit
ELECTRICAL CONNECTION	1Ø - 2 wire	
CERTIFICATION	(Not applicable for MF216 & MF316)	(Not applicable for MP214 & MP314)
ORDER CODE	MF16, MF16-CU, MF16-110V, MF16-110V-CU, MF216, MF316, MF316-110V	MP14, MP14-CU, MP14-110V, MP14-110V-CU, MP214, MP314, MP314-110V

LED Voltmeter



Cutout Size: 46 x 92 ; 67.5 x 67.5 ; 92 x 92

MODE (Bezel Size)	MV15 (48 X 96)	MV205 (72 X 72)	MV305 (96 X 96)	MV15-DC-200V	MV15-AC-20/200V
DESCRIPTION	Digital Voltmeter				
DISPLAY	3 digit, 7 segment LED display			3½ digit, 7 segment LED display	
MEASUREMENT RANGE	50 - 480V AC (516V max)			-199.9V to +199.9V	0-19.99/199.9V
ELECTRICAL CONNECTION	1Ø - 2 wire				
ACCURACY	± 0.5% of full scale				
SUPPLY VOLTAGE	240V AC (±20% / ±10%), 50/60 Hz; 110V AC (±20% / ±10%), 60 Hz ¹				
CERTIFICATION	(Not applicable for MV305)				
ORDER CODE	MV15, MV15-CU MV15-110V, MV15-110V-CU, MV205, MV205-CU, MV205-110V, MV205-110V-CU MV305			MV15-DC-200V MV15-DC-200V-CU MV15-DC-200V-110V MV15-DC-200V-110V-CU	MV15-AC-20/200V MV15-AC-20/200V-CU MV15-AC-20/200V-110V MV15-AC-20/200V-110V-CU
OTHER MODELS	---			MV15-DC-20V MV15-DC-20V-CU MV15-DC-20V-110V MV15-DC-20V-110V-CU MV15-DC-200mV MV15-DC-200mV-CU MV15-DC-200mV-110V MV15-DC-200mV-110V-CU MV15-DC-2V MV15-DC-2V-CU MV15-DC-2V-110V MV15-DC-2V-110V-CU	MV15-AC-200/2000mV MV15-AC-200/2000mV-CU MV15-AC-200/2000mV-110V MV15-AC-200/2000mV-110V-CU

¹ Refer detail datasheet for tolerance

MODEL (BEZEL SIZE)	MV507; MV207 (48 X 48 ; 72 X 72)	MV2307 (72 X 72)
DESCRIPTION	Digital Ammeter	3Ø Voltmeter with selector switch
DISPLAY	3 digit, Liquid Crystal Display with analog style bargraph indication	
MEASUREMENT RANGE	50 - 480V AC (516V max)	
ELECTRICAL CONNECTION	1Ø - 2 wire	3Ø - 4 wire, 3Ø - 3 wire
ACCURACY	± 0.5% of F.S. Over rated operating condition	
CT PRIMARY SETTING	---	
AUXILIARY SUPPLY	240 VAC (±20%), 50/60 Hz; 110VAC (±20%), 60 Hz	
CERTIFICATION		
ORDER CODE	MV507 : MV507, MV507-CU, MV507-110V, MV507-110V-CU MV207 : MV207, MV207-CU, MV207-110V, MV207-110V-CU	MV2307 : MV2307, MV2307-CU, MV2307-110V, MV2307-110V-CU

LCD Voltmeter



MV207
Cutout Size: 67.5 x 67.5



MV2307
Cutout Size: 67.5 x 67.5

Current Transformer



GENERAL SPECIFICATION	SPCT SERIES
RATED PRIMARY RATING	30A To 1200A
RATED SECONDARY OUTPUT	5A
RATED BURDEN	1.5V To 15VA
CLASS OF ACCURACY	0.5
OPERATING FREQUENCY	AC 50Hz- 60Hz
INSULATION CLASS	E (120°C max)
SYSTEM VOLTAGE	720V maximum
APPLICATION STANDARD	IEC/EN 60044 -1, BS 3938



■ Din Rail Type Protection Relay

COMMON FEATURES

Mounting : DIN RAIL Mounting

Reset: Auto reset on removal of fault condition

LED INDICATION: Relay ON (600VPR has Relay ON & Power ON)

RELAY RATING: NO/5A, NC/3A @ 250V AC

DESCRIPTION	MODEL	MODES	TIME RANGES	ACCURACY	OUTPUT CONTACTS	SUPPLY VOLTAGE	ORDER CODE	CERTIFICATION
Voltage Protection Relay	600VPR	600VPR-310/520: Under voltage trip: -2.5% to -25% of 415V AC Over voltage trip: +2.5% to +25% of 415V AC Phase Sequence : Yes	Trip time delay: 0.2 to 10 sec Power On Delay: 400 msec	Trip: ±0.5% of F.S. Time: ±5% of F.S	1 C/O (SPDT) Rating: NO/5A, NC/3A, 250V AC	3Ø/3W 600VPR-310/520: 310 to 520V AC(L-L)	600VPR-310/520	CE
		600VPR-170/290: Under voltage trip: -2.5% to -25% of 230V AC Over voltage trip: +2.5% to +25% of 230V AC Phase Sequence : Yes				600VPR-170/290-CU	CE	
Voltage Protection Relay	600VPR-1	600VPR-1-180/300: Under voltage trip: 180 to 234V AC Over voltage trip: 246 to 300V AC	Trip time delay: 0.2 to 10 sec Power On Delay: 200 msec			1Ø/2W 600VPR-1-180/300 180 to 300V AC(L-N)	600VPR-1-180/300	CE
Phase Sequence Relay	600PSR	600PSR: Phase Sequence, Phase Missing, Phase Failure Trip: <154V AC (L-L), Phase imbalance: 30V fixed, Hysteresis: 6V	Response Time: 200 msec max. Power On Delay: 200 msec	Trip: ±10V	1 C/O (SPDT) Rating: NO/5A, NC/3A, 250V AC	3Ø/3W 600PSR: 154 to 500V AC(L-L)	600PSR	CE
	800PSR	800PSR: Phase Sequence, Phase Missing, Phase Failure Trip: <70% of Nominal Voltage 280V AC, Phase imbalance: 30V fixed, Hysteresis: 6V	Response Time: 100 msec max. Power On Delay: 100 msec			3Ø/3W 800PSR: 280 to 528V AC(L-L)	800PSR	---



■ Earth Leakage Relay

LEAKAGE CURRENT	via CBCT (see accessories beside) 30, 100, 300, 500 mA. 1, 3, 5, 10, 20, 30 A
POWER ON DELAY	Approx. 1 sec
TRIP TIME DELAY	0 to 9 seconds (adjustable)
RESET	Below 85% of tripped level & in the presence of CBCT by 1) Front reset 2) Remote reset 3) ON Power Interruption
CBCT RATIO	1200:1
ACCURACY	±5% of F.S. (30,100, 300, 500 mA, 1, 3, 5A), ±12% of F.S. (10, 20, 30 A)

MODEL	ELR600
DESCRIPTION	Earth Leakage relay 3 Ø - 4 wire & 1 Ø
SUPPLY VOLTAGE	230V AC (± 15%)
OUTPUT CONTACT RATING	1. Trip Relay: 1SPDT: NO (5 A@250V AC) NC (3 A@250V AC) 2. Fail Safe Relay: 1SPST: NO (10 A@250V AC)



■ CBCT FOR EARTH LEAKAGE RELAY

DESCRIPTION	CBCT for ELR600	CBCT for 900ELR-2
CT RATIO	1200:1	1000:1
SIZES (inner diameter)	35 mm, 70 mm, 120 mm	
ORDERING INFORMATION		
Inner Diameter (in mm)	Order Code	
35	CBCT-35	CBCT-35-1
70	CBCT-70	CBCT-70-1
120	CBCT-120	CBCT-120-1

■ Voltage Protection Relay



FEATURES

Mounting : DIN RAIL Mounting

Size: 35 (W) x 90(H) x 60(D)

LED INDICATION: Power ON, Phase Loss, Under Voltage,

Over Voltage, Phase Sequence / Unbalance

RELAY RATING: 5A @ 250V AC / 28V DC

MODEL (Bezel Size)	VPRA2M 35 (W) x 90 (H) x 60 (D)
LED INDICATION	Power ON, Phase Loss, Under Voltage, Over Voltage, Phase Sequence / Unbalance
ELECTRICAL CONNECTION	1Ø - 2Wire, 3Ø - 4Wire
TRIP SETTING	Under Voltage: 55 to 95% of Un [127 to 219V AC (L-N)] Over Voltage: 105 to 125% of Un [242 to 280V AC (L-N)] Phase Sequence: Yes, Phase Failure: Yes, Phase Unbalance: > 10%
TRIP TIME SETTING	Power On Delay: 0-15 sec (for 0 setting: <400msec), Recovery Delay Time: 5 sec ±200ms Trip Time Delay: 0 - 15 sec
HYSTERESIS	Voltage : 7V (±2V) of trip voltage
ACCURACY	Trip Setting Accuracy: ±5% of F. S. Time Setting Accuracy: ±10% of F. S.
OUTPUT CONTACT	DPDT (2 C/O)
RELAY RATING	5A @ 250V AC / 28V DC
SUPPLY VOLTAGE	Nominal Input Voltage: Un 230V AC (L-N) Operating Voltage: 127 to 288V AC (L-N)
FREQUENCY	48 - 63Hz
POWER CONSUMPTION	5VA max
ORDER CODE	VPRA2M

Voltage Protection / Earth Leakage Relay



900VPR-2



900ELR-2

MODEL (Bezel Size)	900VPR-2 35 (W) x 90 (H) x 60 (D)	900ELR-2 35 (W) x 90 (H) x 60 (D)
MEASUREMENTS	Voltage (V_{L-N} , V_{L-L}), Frequency, Phase Asymmetry, Phase Failure, Phase Sequence	Earth Leakage current monitoring (via external CBCT)
DISPLAY	3 digits Liquid Crystal Display	3 digits Liquid Crystal Display
ALARM INDICATIONS	Trip	Pre - warning alarm, Trip, CBCT error
ELECTRICAL CONNECTION	3Ø-3 wire, 3Ø-4 wire	1Ø-2 wire, 3Ø-3 wire, 3Ø-4 wire
TRIP SETTING	Under / Over Voltage: 280 to 520V AC L-L (for 3Ø-3 wire system) 160 to 300V AC (for 3Ø-4 wire system) Under / Over Frequency: 45 – 65Hz Voltage Asymmetry: 5.0 – 99.9%	Leakage Current: 10mA - 30A Pre Alarm: 50 - 100% of leakage current setting
TRIP TIME SETTING	Power ON Delay: 2 – 99.9sec Trip Time Delay: 0 – 99.9sec Delay on Release: 0 – 99.9sec Response Time: <200ms	Power ON Delay: 0.5 – 99.9sec Trip time delay: 0 – 99.9sec Delay ON Release: 0 – 99.9sec Response Time: <30ms (if trip current $\geq 5 \times$ set value) <50ms (if trip current $\geq 1 \times$ set value)
HYSTERESIS	Voltage: 1.0 – 99.0V, Frequency: 0.2 – 2Hz, Asymmetry: 2-20%	5-40% of set value
RESOLUTION	Voltage: 1V. Frequency: 0.1Hz	Current: 0.1, 1mA, 0.01A, 0.1A (Depends on trip setting)
ACCURACY	Voltage: $\pm 1\%$ of set value, Frequency: $\pm 0.3\text{Hz}$, Time (Recovery Time, Trip delay, Power on delay): $\pm 5\%$ of setting +200ms	5 – 40% of set value
OUTPUT CONTACT	2 x 1C/O (SPDT)	2 x 1C/O (SPDT)
RELAY RATING	NO : 5A, 250V AC ; NC : 3A, 250V AC	NO : 5A, 250V AC; NC : 3A, 250V AC
SUPPLY VOLTAGE	Self Powered	230V AC (factory set) / 110V AC / 12-24V DC; $\pm 15\%$
FREQUENCY	45 - 65Hz	45 - 65Hz
POWER CONSUMPTION	30VA max.	3VA max
TEMPERATURE	Operating Temperature: 0°C to +50°C Storage Temperature: -20°C to +70°C	
ORDER CODE	900VPR-2-280/520V	900ELR-2-230V, 900ELR-2-110V, 900ELR-2-12/24V DC

Current Protection Relay



900CPR-1



900CPR-3

MODEL (Bezel Size)	900CPR-1 35 (W) x 90 (H) x 60 (D)	900CPR-3 35 (W) x 90 (H) x 60 (D)
MEASUREMENTS	Current	Current, Current Asymmetry
DISPLAY	3 digits Liquid Crystal Display	3 digits Liquid Crystal Display
ALARM INDICATIONS	Trip	Trip
ELECTRICAL CONNECTION	1Ø-2 wire	1Ø-2 wire, 3Ø-3 wire, 3Ø-4 wire
CT SETTING	CT Primary: 1A/5A - 999A CT Secondary: 1A / 5A (selectable)	CT Primary: 1A/5A - 999A CT Secondary: 1A / 5A (selectable)
TRIP SETTING	Under Current: 0 – 999A Over Current: 0.5A – 1.19kA	Under Current: 0 – 999A Over Current: 0.5A - 1.19kA Current Asymmetry: 5.0 – 99.9%
TRIP TIME SETTING	Power ON Delay: 0.5 – 99.9sec Trip time delay: 0 – 99.9sec Delay ON Release: 0 – 99.9sec Response Time: < 100ms	Power ON Delay: 0.5 – 99.9sec Trip time delay: 0 – 99.9sec Delay ON Release: 0 – 99.9sec Response Time: < 200ms
HYSTERESIS	Current: 0.1 – 99.9A (Depends on CT setting)	Current: 0.1 – 99.9A (Depends on CT setting)
RESOLUTION	Current: 0.01, 0.1, 1A, 0.01kA (Depends on CT setting)	Current: 0.01, 0.1, 1A, 0.01kA (Depends on CT setting)
ACCURACY	Current: $\pm 1\%$ of CT Setting ± 2 digits, Time (Recovery Time, Trip delay, Power on delay) : $\pm 5\%$ of setting +100ms	Current: $\pm 1\%$ of CT Setting ± 2 digits, Time (Recovery Time, Trip delay, Power on delay) : $\pm 5\%$ of setting +200ms
OUTPUT CONTACT	1C/O (SPDT)	1C/O (SPDT)
RELAY RATING	NO : 5A, 250V AC; NC : 3A, 250V AC	NO : 5A, 250V AC; NC : 3A, 250V AC
SUPPLY VOLTAGE	230V AC (factory set) / 110V AC; $\pm 15\%$	230V AC (factory set) / 110V AC; $\pm 15\%$
FREQUENCY	45 - 65Hz	45 - 65Hz
POWER CONSUMPTION	12VA max	12VA max
TEMPERATURE	Operating Temperature: 0°C to +50°C Storage Temperature : -20°C to +70°C	
ORDER CODE	900CPR-1-230V, 900CPR-1-110V	900CPR-3-230V, 900CPR-3-110V

■ Advance PID Controller



PID500
Panel Cutout : 46 x 46



PID110
Panel Cutout : 92 x 46



PID330
Panel Cutout : 92 x 92

MODEL (Bezel Size)	PID500 (48 x 48)	PID110 (96 x 48)	PID330 (96 x 96)
DISPLAY	4 digit Upper display: Process value, 4 digit Lower display: Selectable.		
INPUT (SELECTABLE)	Thermocouple: J, K, T, R, S, C, E, B, N, L, U, W, Platine II RTD: Pt100 Signal Inputs (DC): -5 to 56 mV, 0 to 10 V, 0 to 20 mA		
RESOLUTION	TC / RTD : 1 / 0.1 ^o ; Analog input : 1 / 0.1 / 0.01 / 0.001.		
ACCURACY	For TC inputs: 0.25% of F.S. ±1 ^o ; For R & S inputs: 0.5% of F.S. ±2 ^o (20 min of warm up time) For RTD inputs: 0.1% of F.S. ±1 ^o ; Cold junction accuracy ± 5 ^o C; Signal input: ±0.5%, ± 1 digit		
CONTROL ACTION	Autotune PID or ON - OFF, P, PI, PD, PID		
MAIN OUTPUT	Relay, SSR - Max2 (Relay or SSR drive voltage) / Current : 0/4 to 20 mA DC (max load 500E) / Voltage : 0 to 5/10V DC (min load 10K)		
AUXILIARY OUTPUT	(Maximum 2) Relay / SSR (Mode: Set point or Alarm mode)		
OPTIONAL FEATURES	Extra alarm output Rly3, Heater current monitor and Break Alarm, Remote Set point Input (0 to 20mA, 0 to 10V), Motorized valve Control, RS-485 (MODBUS PC software available), Retransmission analog output	Extra alarm output (relay3), RS-485 (MODBUS PC software available), Retransmission analog output	
POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC/DC, 24V AC/DC optional		
CERTIFICATION	CE c RU ^{us}	CE c RU ^{us}	CE c RU ^{us}

For order code information, please refer datasheet available at www.selec.com

■ Economical Temperature Controller



TC544 TC244 TC344
Panel Cutout : 46 x 46 ; 69 x 69 ; 92 x 92



TC513 TC203 TC303
Panel Cutout : 46 x 46 ; 69 x 69 ; 92 x 92



PID528 DTC204A-2 TC52
Panel Cutout : 46 x 46 Panel Cutout : 69 x 69 Cutout Size : 46 x 46

MODEL (Bezel Size)	TC544A (48 X 48) TC244AX (72 X 72) TC344AX (96 X 96)	TC533AX (48 X 48)	TC513AX (48 X 48) TC203AX (72 X 72) TC303AX (96 X 96)	TC518 (48 X 48)	PID528 (48 X 48)	DTC204A-2 (72 X 72) DTC324A-2 (96 X 96)	TC52 (48 X 48)
DISPLAY	4 + 4 digits	3 + 3 digits	3 digits	4 + 4 digits	4 digits	Dial Setting	
CONTROL MODES	PID or ON / OFF				Autotune PID, P, PI, PD or ON / OFF	PID or ON / OFF	Time Proportional & ON-OFF controller
INPUT SENSOR TYPE	Thermocouple (J,K,T,R,S) / RTD (Pt100)						Thermocouple (J,K)
RESOLUTION	0.1/1 ^o for TC/RTD (fixed 1 ^o for R & S TC)	Fixed 1 ^o resolution		0.1/1 ^o for TC/RTD input (fixed 1 ^o for R & S type TC input)		—	
ACCURACY	For TC inputs: (J,K,T) 0.25% of F.S. ±1 ^o ; For R & S inputs: 0.5% of F.S. ±2 ^o (20 min of warm up time) For RTD inputs: 0.1% of F.S. ±1 ^o						Setting: ±3% Repeat: ±0.5% (F.S.)
SETPOINT	2	1		2		1	
CONTROL OUTPUT	Relay / SSR (Field Selectable)			Relay / SSR		Relay / SSR (Field Selectable)	Relay : 5A@230V AC
AUXILIARY OUTPUT	Relay / SSR	—		Relay		—	
SPECIAL FUNCTIONS	Heat cool PID Dwell timer	—					
POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC/DC, 24V AC/DC optional	85 to 270V AC/DC	85 to 270V AC/DC, (24V AC/DC optional only for TC513AX)	85 to 270V AC/DC		230V AC	
CERTIFICATION	CE c RU ^{us}	CE c RU ^{us}	CE c RU ^{us}	CE c RU ^{us}	CE c RU ^{us}	—	

For order code information, refer pg no. 9

■ Cooling Controller



CH403

Panel Cutout : 29 x 71

MODEL (Bezel Size)	CH403 (36 x 72)		
DISPLAY	3 digit	DISPLAY OFFSET	-19.9 to 20.0°C/°F
CONTROL MODES	ON / OFF (Hysteresis - 0.1 to 9.9°)	RESTART TIME DELAY	Adjustable from 00 to 99 Min
SENSOR RANGE	NTC type sensor	RELAY ACTION	Heat & Cool Mode
RESOLUTION	1 / 0.1°	DEFROST TIME	Programmable from 00 to 99 Min
ACCURACY	±1% of F.S.	DEFROST FREQUENCY	Programmable from 00 to 99 (Hr/Min/Sec)
SETPOINT	1	POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC/DC, 24V AC/DC optional
OUTPUT	Main Output : Relay, Alarm Output : Relay / SSR	CERTIFICATION	CE c RU _{us}
HYSTERESIS	0.1 to 9.9°C/°F		

For order code information, refer pg no. 9

■ Profile Controller



PR502

Panel Cutout : 46 x 46

MODEL (Bezel Size)	PR502 (48 x 48)
DISPLAY	4 digit Upper display: Process value, 4 digit Lower display: Selectable.
INPUTS	Thermocouple: J, K, T, R, S, C, E, B, N, L, U, W, Platine II RTD: Pt100 Signal Inputs (DC): -5 to 56 mV, 0 to 10 V, 0 to 20 mA
RESOLUTION	TC / RTD : 1 / 0.1°; Analog input : 1 / 0.1 / 0.01 / 0.001.
ACCURACY	For TC inputs: 0.25% of F.S. ±1°; For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time) For RTD inputs: 0.1% of F.S. ±1°; Cold junction accuracy ± 5°C ; Signal input: ±0.5%, ± 1 digit
CONTROL ACTION	Autotune PID or ON / OFF, P, PI, PD, PID
MAIN OUTPUT	Relay (5A@230V AC/30V DC) / SSR (18V DC, 20mA) / Current : 0/4 to 20 mA DC / Voltage: 0 to 5/10V DC (min load 10/5)
AUXILIARY OUTPUT	Relay (5A@230V AC/30V DC) / SSR (12V DC, 20mA) (Mode: Set point or Alarm mode)
PROFILE PARAMETERS	No. of Profiles : 10 (16 Steps each) Ramp/Soak Time Range : 0.01 to 99.59 Hrs : Min Target Temperature Range : SPLL to SPHL Other Profile Parameters : Link profiles, Programmable repeat cycle, Power down resume / Reset option, Deviation hold, Alarm at each step with settable alarm duration
OPTIONAL FEATURES	RS-485 (MODBUS), Retransmission analog output
POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC/DC, 24V AC/DC optional
CERTIFICATION	CE c RU _{us}

For order code information, please refer datasheet available at www.selec.com

■ Process Indicators



PIC1000N

Panel Cutout : 46 x 92



PIC152N

Panel Cutout : 46 x 92



PIC101A-T-230/
PIC101A-VI-230

Panel Cutout : 46 x 92

MODEL (Bezel Size)	PIC1000N (48 X 96)	PIC152N (48 X 96)	PIC101N (48 X 96)	PIC101A-T-230 (48 X 96)	PIC101A-VI-230 (48 X 96)
DISPLAY	4 digits				
SENSOR RANGE	Thermocouple: J, K, T, R, S, C, E, B, N, L, U, W, Platine II RTD: Pt100, Pt1000 Signal Inputs (DC): -5 to 56mV, 0 to 100mV, 0 to 10V, 0/4 to 20mA			Thermocouple: J, K, T, R, S RTD: Pt100	Signal Inputs (DC): 0 to 10V, 0/4 to 20mA
RESOLUTION	TC / RTD : 1 / 0.1°; Analog input : 1 / 0.1 / 0.01 / 0.001.			1 / 0.1° (Fix 1° resolution for R & S type TC)	Decimal Point position selectable : 1/0.1/0.01/0.001
ACCURACY	For TC inputs: 0.25% of F.S. ±1°; For R & S inputs: 0.5% of F.S. ±2° (20 min of warm up time) For RTD inputs: 0.1% of F.S. ±1°; Cold junction accuracy ± 5°C ; Signal input: ±0.5% of F.S, ± 1 digit			TC : 0.25% of F.S. ±1°; R & S TC: 0.5% of F.S. ±2° (20 min of warm up time) RTD : 0.1% of F.S. ±1°	Signal input: ±0.5% of full scale, ± 1 digit
OUTPUT	4 alarms, Programmable delay timer	2 alarms	---		
	Alarm modes : High, Low, Band, Fail output & fault diagnosis. Hysteresis, Annunciator : Programmable, Reset action : Automatic or latched			---	
OPTIONAL FEATURES	Retransmission output: 0/4 to 20mA DC, 0 to 5V DC, 0 to 10V DC			---	
COMMUNICATION	RS485 (MODBUS)	---			
SENSOR SUPPLY	24V DC output to power the sensor, 30mA			---	
POWER SUPPLY (AC: 50/60 Hz)	85 to 270V AC/DC, 24V DC optional			230V AC, ±20%	
CERTIFICATION	CE c RU _{us}	CE c RU _{us}	CE c RU _{us}	---	---

For order code information, refer pg no. 9

Ordering Information

TC544 / TC244 / TC344 / DTC204 / DTC324						
Part No.	Output 1		Output 2		Supply Voltage	
	Relay	SSR (12V DC)	Relay	SSR (12V DC)	85-270V AC/DC	24V AC/DC
TC544A	■	■	■		■	
TC544A-1	■	■		■	■	
TC544A-24V	■	■	■			■
TC544A-1-24V	■	■		■		■
TC244AX	■	■	■		■	
TC244AX-24V	■	■	■			■
TC344AX	■	■	■		■	
TC344AX-24V	■	■	■			■
DTC204A-2	■	■	■		■	
DTC324A-2	■	■	■		■	

TC513 / TC203 / TC303 / TC533				
Part No.	Output 1		Supply Voltage	
	Relay	SSR (12V DC)	85-270V AC/DC	24V AC/DC
TC513AX	■	■	■	
TC513AX-24V	■	■		■
TC203AX	■	■	■	
TC303AX	■	■	■	
TC533AX	■	■	■	

PID528				
Part No.	Output 1		Output 2	Supply Voltage
	Relay	SSR (18V DC)	Relay	85-270V AC/DC
PID528-1	■		■	■
PID528-2		■	■	■

PIC1000N / PIC101N / PIC101A				
Part No.	Retransmission	Communication	Supply Voltage	
			85-270V AC/DC	24V AC/DC
PIC1000N-A			■	
PIC1000N-A-24V				■
PIC1000N-D-2	4-20mA		■	
PIC1000N-D-2-24V	4-20mA			■
PIC1000N-E-1	0-20mA	■	■	
PIC1000N-E-1-24V	0-20mA	■		■
PIC1000N-E-2	4-20mA	■	■	
PIC1000N-E-2-24V	4-20mA	■		■
PIC1000N-E-3	0-5V	■	■	
PIC1000N-E-3-24V	0-5V	■		■
PIC1000N-E-4	0-10V	■	■	
PIC1000N-E-4-24V	0-10V	■		■
PIC101N			■	
PIC101N-24V				■

PIC152N			
Part No.	Retransmission	Supply Voltage	
		85-270V AC/DC	24V AC/DC
PIC152N-A		■	
PIC152N-A-24V			■
PIC152N-B-1	0-20mA	■	
PIC152N-B-1-24V	0-20mA		■
PIC152N-B-2	4-20mA	■	
PIC152N-B-2-24V	4-20mA		■
PIC152N-B-3	0-5V	■	
PIC152N-B-3-24V	0-5V		■
PIC152N-B-4	0-10V	■	
PIC152N-B-4-24V	0-10V		■

PIC101A-T-230 & PIC101A-VI-230	
Part No.	Supply Voltage (230V AC)
PIC101A-T-230	■
PIC101A-VI-230	■

DTC204 / DTC324 / CH403 / TC518 / TC52					
PRODUCT	ORDER CODE	DESCRIPTION	Supply Voltage		
			230V AC	85-270V AC/DC	24V AC/DC
CH403	CH403-1	Main O/P : 10A@230V AC Relay, Alarm Output : 12V DC SSR, 10mA		■	
	CH403-1-24V				■
	CH403-2	Main O/P : 20 A@230V AC Relay, Alarm O/P : None		■	
	CH403-2-24V				■
	CH403-3	Main O/P : 10A@230V AC Relay, Alarm Output : 5A@230V AC Relay		■	
CH403-3-24V				■	
TC518	TC518	Relay : 5 A@ 230V AC or 30V DC		■	
	TC518-SSR	SSR : 18V DC, @ 20 mA		■	
TC52	TC52-400-J-230	TC52 (Product) - 0 - 400°C - J Type Thermocouple - 230V AC supply	■		
	TC52-400-K-230	TC52 (Product) - 0 - 400°C - K Type Thermocouple - 230V AC supply	■		



XT532
Cutout Size : 46 x 46



XT520
Cutout Size : 46 x 46



XT543
Cutout Size : 46 x 46



XT242
Cutout Size : 69 x 69



XT5042
Cutout Size : 46 x 46

MODEL (Bezel Size)	XT532(48 X 48)	XT520 (48 X 48)	XT543 (48 X 48)	XT242 (72 X 72)	XT5042 (48 X 48)
DISPLAY	2 digit	3 digit		4 + 4 digit	
SETPOINT	Single set point			Dual set point	
DELAY MODES	ON delay / Interval / Cyclic (on first) / Cyclic (off first)			ON delay/Interval/Cyclic (on first)/Cyclic (off first)/Forward-Pause-Reverse/Instantaneous + Delayed/Timer/Batch	
TIME RANGE	9.9/99sec, 9.9/99min, 9.9/99hr	9.99/99.9/999sec, 9:59min:sec, 99.9/999min, 9:59hr:min, 99.9/999hr		99.99/999.9/999sec, 99.59min:sec, 999.9min, 9999min 999.9hr, 9999hr	99.99/999.9/9999sec, 99.59min:sec, 999.9/9999min, 99.59hr:min 999.9/9999hr
MEMORY RETENTION	10 Year	No memory retention		10 Year	
RESET / START INPUT	Start: Pulse start	Start: Gate / Pulse start (Programmable)			
	Reset : Front panel, Remote reset, On power interruption				
ACCURACY	±0.05% of F.S. or 50 ms			±0.05% of F.S. or 50 ms	
OUTPUT CONTACTS	2 C/O (DPDT)			1 C/O for each set point	2, each 1 NO
SUPPLY VOLTAGE	85 to 270V AC / DC (AC : @ 50 or 60Hz)				
CERTIFICATION	—				
ORDER CODE	XT532-N XT532-N-M1	XT520N	XT543-N	XT242	XT5042 XT5042-24



XT56 ; 264 ; 364
Panel Cutout : 46 x 46 ; 69 x 69 ; 92 x 92



XT546 ; 246 ; 346
Panel Cutout : 46 x 46 ; 69 x 69 ; 92 x 92

MODEL (Bezel Size)	XT56 (48 X 48)	XT264 (72 X 72)	XT364 (96 X 96)	XT546 (48 X 48)	XT246 (72 X 72)	XT346 (96 X 96)
DISPLAY	3 digit			3 digit 7 Segment LED, Dual display		
SETPOINT	Single set point					
DELAY MODES	ON delay / Interval			ON delay / Interval / Cyclic (on first) / Cyclic (off first)		
TIME RANGE	9.99 / 99.9 / 999sec, 99.9 / 999min, 99.9hr			9.99 / 99.9 / 999sec, 9.59min : sec, 99.9 / 999min, 9.59hr : min, 99.9 / 999hr		
TIME SETTING	Pushwheel			Front keypad		
RESET/START INPUT	Start : Pulse start. Reset : Front, Remote, Power interruption			Start: Gate / Pulse start (Programmable)		
ACCURACY	±0.05% of F.S. or 50 ms			±0.05% of set time or 50 ms (whichever is greater)		
OUTPUT CONTACTS	2 C/O (DPDT)			2 C/O (DPDT)		
SUPPLY VOLTAGE	85 to 270V AC / DC (AC : @ 50 or 60Hz)			85 to 270V AC, 24V AC/DC (optional)		
CERTIFICATION	—			(Not applicable for 24V model)		
ORDER CODE	XT56-N	XT264	XT364	XT546 XT546-24	XT246 XT246-24	XT346

Sequential Timer



PT380
Panel Cutout : 92 x 92

MODEL (Bezel Size)	PT380 (96 X 96)
DISPLAY	2 + 4 digit
DELAY MODES	ON delay / Interval / Cyclic on first / Cyclic off first (Start up delay & no. of cycles programmable for cyclic mode)
TIME RANGE	99.99, 999.9, 99.59min : sec, 99.59hr : min, 999.9hr
INPUT	Start, Hold
NO. OF CHANNELS	8 Channels
ACCURACY	±0.5% of setting or 50 msec (whichever is greater)
MEMORY RETENTION	10 Years (User selectable)
SUPPLY VOLTAGE	85 to 270V AC/DC, (AC : @ 50 or 60 Hz)
CERTIFICATION	—
ORDER CODE	PT380

Din Rail Type Digital Timer



600DT

MODEL	600DT
DESCRIPTION	15 Functions, 8 Time ranges
ACCURACY	Setting: ± 0.1% of set time or ±50msec (whichever is greater) For Y contact operation : +100msec, Repeat: ± 0.1 %
OUTPUT CONTACTS	1 C/O (SPDT)
MODES*	A, B, C, D, E, F, H, J, K, L, P, Q, R, T, U
TIME RANGES	0-99.9 sec / min / hr, 0-999 sec / min / hr 0-9:59 min:sec, 0-9:59 hr:min
SUPPLY VOLTAGE	20-240V AC/DC AC:(50 / 60 Hz)
CERTIFICATION	
ORDER CODE*	600DT

MODES*
 A - On delay, B - Interval, C - Asymmetrical cyclic OFF first, D - Asymmetrical cyclic ON first,
 E - Repeat cycle equal OFF first, F - Repeat cycle equal ON first, H - Pulse output,
 J - Delay on break, K - Delay on make/Delay on break, L - Interval after break, P - Single shot,
 Q - Retriggerable Single shot, R - Latching relay, T - Delay on make with Totalise,
 U - Interval with Totalise



17.5mm Din Rail Timer

Series 600 NEW

COMMON FEATURES

Mounting : DIN RAIL Mounting

Size: 17.5 (W) x 90(H) x 60(D)

Reset: On interruption of power;
Reset time less than 100ms.

LED INDICATION: 1) Power 2) Relay

RELAY RATING: NO/5A, NC/3A @ 250V AC

DESCRIPTION	MODEL	ACCURACY	OUTPUT CONTACTS	MODES*	TIME RANGES	SUPPLY VOLTAGE	CERTIFICATION	ORDER CODE*
Single Function 10 time ranges	600ST	Setting: $\pm 5\%$ of F.S. Repeat: $\pm 0.5\%$ (F.S. = Full Scale)	1 C/O (SPDT)	A	0.1-1 sec, 0.3-3 sec, 1-10 sec, 3-30 sec, 0.1-1 min, 0.3-3 min 1-10 min, 3-30 min, 0.1-1 hr, 0.3-3 hr	110V AC, 240V AC AC:(50/60 Hz)	CE	600ST
13 Functions 10 Time ranges	600XU	Setting: $\pm 5\%$ of F.S. Repeat: $\pm 0.5\%$ (F.S. = Full Scale)	1 C/O (SPDT)	A, B, C, Ci, D, E, F, H, I, J, K, Ai, Bi,	0.1-1 sec, 0.3-3 sec, 1-10 sec, 3-30 sec, 0.1-1 min, 0.3-3 min 1-10 min, 3-30 min, 0.1-1 hr, 0.3-3 hr	20-240V AC 12-240V DC AC:(50 / 60 Hz)	CE	600XU
5 Functions 10 time ranges	600U	Setting: $\pm 5\%$ of F.S. Repeat: $\pm 0.5\%$ (F.S. = Full Scale)	2 C/O (DPDT)	A, B, C, Ci, D	0.1-1 sec, 0.3-3 sec 1-10 sec, 3-30 sec, 0.1-1 min, 0.3-3 min 1-10 min, 3-30 min, 0.1-1 hr, 0.3-3 hr	20-240 V AC/DC AC:(50/60 Hz)	CE	600U-2
Star Delta	600SD	Setting: $\pm 5\%$ of F.S. Repeat: $\pm 0.5\%$ (F.S. = Full Scale)	1 C/O relay each for star & delta	Star - Delta	Run up time: 3 sec - 30 sec, 6 sec - 60 sec Change over: 50/100 msec	110V AC, 230V AC, 415V AC AC:(50 / 60 Hz)	CE	600SD-2

Modes* 600XU | A - On delay, B - Interval, C - Repeat cycle equal OFF first, Ci - Repeat cycle equal ON first, D - Pulse output 500ms fixed, E - Delay on break,
600U | F - Delay on make/Delay on break, H - Interval after break, I - Single shot, J - Retriggerable Single shot, K - Latching relay,
600ST | Ai - Delay on make with Totalise, Bi - Interval with Totalise

Order Code* - Please contact factory for UL product order code



22.5mm Din Rail Timer

Series 800

COMMON FEATURES

Mounting : DIN RAIL / Screw Mounting

Size: 22.5 (W) x 75(H) x 101 (D)

Reset : On interruption of power
(Reset time : Less than 100ms)

LED indication: For 800XU, XA, M(V1.1),

SQ-A, S, XC : 1) Power 2) Relay

For 800SD: 1) Star relay 2) Delta relay

For 800XMR 1) Relay 1 2) Relay 2

Accuracy: For 800XU, XA, M(V1.1), SQ-A, S, XMR, XC, SD:

Setting : $\pm 5\%$ of full scale, Repeat : $\pm 0.5\%$

For 800POD : Setting : + 10% of full scale, Repeat : + 2%

For 800PSR : Trip accuracy $\pm 10\%$

DESCRIPTION	MODEL	OUTPUT CONTACTS	MODES	TIME RANGES	SUPPLY VOLTAGE	CERTIFICATION	ORDER CODE
2 Functions, 12 ranges, Universal voltage	800XU	2 C/O (DPDT)	ON delay / Interval	1 / 3 / 10 / 30 sec / min / hr	20 to 240V AC (AC:50 or 60 Hz); 12 to 240V DC	CE	800XU
2 Functions, 8 ranges, Universal voltage	800XA	2 C/O (DPDT)	ON delay / Interval	3 / 10 / 30 / 60 sec / min	20 to 240V AC (AC:50 or 60 Hz); 12 to 240V DC	CE	800XA
2 Functions, 12 ranges	800M	2 C/O (DPDT)	ON delay / Interval	1 / 3 / 10 / 30 sec / min / hr	230 - 230V AC, 12 - 12V DC	—	800M (V1.1)
Low cost, 8 ranges, dual voltage	800SQ-A	1 C/O (SPDT)	ON delay / Interval	3 / 10 / 30 / 60 sec / min	230 - 230V AC & 24V AC/DC 110 - 110V AC & 24V AC/DC	CE	800SQ-A-230 800SQ-A-110
Low cost, Single range, Single Function	800S	1 - 1 C/O (SPDT)	ON: ON-delay	30: 30 sec 60S: 60 sec (factory set)	12 -12V DC, 110 -110V AC 230 - 230V AC 415 -415V AC	—	800S-1-ON-30S-230 800S-1-ON-60S-230
Star delta timer	800SD-2	1 C/O relay each for star & delta	Star - delta	Run up time range: 30 / 60 sec Change over: 50 / 100 msec	110 - 110V AC, 230 - 230V AC 415 - 415V AC	CE (Not applicable for 415V model)	800SD-2-230 800SD-2-110 800SD-2-415
Cyclic with unequal ON time & OFF time	800XC	2 C/O (DPDT)	Asymmetrical Cyclic ON first or OFF first	1 / 10 / sec / min / hr for both ON & OFF time	20 to 240V AC, 12 to 240V DC. (AC:50 / 60HZ)	CE	800XC
Forward - Pause - Reverse	800XMR	1 C/O each for Forward & Reverse	Forward - Pause - Reverse	ON time : 1/2/4/8min Pause time : 10/20/40/80s	20 to 240V AC, 12 to 240V DC.	—	800XMR
True Power OFF delay Timer	800POD	2 C/O (DPDT)	True power OFF delay	60s - 60sec, 180s - 180sec	110 to 240V AC / DC	CE	800POD-60 800POD-180



■ Series 55 : Plug / Panel Mounting

COMMON FEATURES :

Mounting ; Plug / Panel Mounting

RESET ; On interruption of power (Reset time : Less than 100ms)

LED INDICATION : 1) Power, 2) Relay

ACCURACY: For 55XU, M(V1.1), Q(V1.1), ES, XC:

Setting : ± 5% of full scale

Repeat : ± 0.5% or 50 ms (whichever is greater)

RELAY RATING: For 55XU, M(V1.1), Q(V1.1), ES, XC:

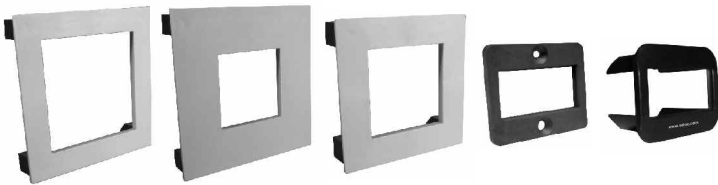
5 A @ 230V AC / 24V DC, resistive load

DESCRIPTION	MODEL	BASE TYPE	OUTPUT CONTACTS	MODES	TIME RANGE	SUPPLY VOLTAGE	CERTIFICATION	ORDER CODE
2 functions, 12 ranges, Universal voltage	55XU	P8 - 8 pin plug T - Screw terminal	2 C/O (DPDT)	ON Delay / Interval	1 / 3 / 10 / 30 sec min / hr	20 to 240V AC, 12 to 240V DC. (AC : 50/60HZ)	CE US	55XU-P8 55XU-T
2 functions, 12 ranges	55M (V1.1)	P8 - 8 pin plug T - Screw terminal	2 C/O (DPDT)	ON Delay / Interval	1 / 3 / 10 / 30 sec min / hr	230 - 230V AC	—	55M (V1.1)-P8-230 55M (V1.1)-T-230
Low cost, 8 range dual voltage	55ES	P8 - 8 pin plug T - Screw terminal	1 C/O (SPDT)	ON Delay / Interval	3 / 10 / 30 / 60 sec / min	230 : 230V AC & 24V AC / DC, 110 : 110V AC & 24V AC / DC (AC:50/60Hz)	CE US	55ES-P8-230 55ES-T-230 55ES-P8-110 55ES-T-110
Cyclic with unequal on time & off time	55XC	P8 - 8 pin plug T - Screw terminal	2 C/O (DPDT)	Asymmetrical Cyclic ON first or OFF first	1 / 10 sec / min / hr for both on & off time	20 to 240V AC, 12 to 240V DC. (AC:50/60HZ)	CE US	55XC-P8 55XC-T

■ Accessories

ADAPTER PLATES - Material: ABS plastic

To fit smaller products into 92mm x 92mm size or 69mm x 69mm size cut outs



Model: AP9672

To fit 72 mm x 72 mm product in to 92 x 92 mm cutout

Model: AP9648

To fit 48 mm x 48 mm product in to 92 mm x 92 mm cutout

Model: AP7248

To fit 48 mm x 48 mm product in to 69 mm x 69 mm cutout

Model: AP6050

Model: AP4848

48 x 48 COLLAR CLAMP

Model: ACL4802



SNUBBER CIRCUIT

R - C network to reduce electrical noise

Model: APRC01



TRANSPARENT FULL COVER

Material: Poly carbonate

Size: to fit for 48 mm x 48 mm products

Model: ACF4801

8 PIN SOCKET

Mounting: a) DIN rail mounting
b) Surface mounting

Model: AS08



■ Time Measuring Instruments



TT412
Cutout Size : 29 x 71



T1103
Cutout Size : 46 x 92



LT920
Cutout Size : 22.5 x 45.5



LT945
Cutout Size : 46 x 46

MODEL (Bezel Size)	TT412 (36 X 72)	T1103 (48 X 96)	LT920 (24 X 48)	LT945 (48 X 48)
DESCRIPTION	Time Totaliser	Time Interval Meter	Time Totaliser	
DISPLAY	6 digits	4 digits	8 digits	
RANGE	99999.9 / 999999 / sec / min / hr	a) Autoranging: .0001 to 9999 sec b) Fixed ranges: .9999, 9.999, 99.99, 999.9, 9999 sec	a) 9999.59.59 hr:min:sec b) 999999.99 hr	999999.99 hr
ACCURACY	0.05%			
INPUT	Mains, Potential free contact, PNP sensor	Potential free & 3-30V DC from solid state devices	a) 24 to 260V AC b) Contact input	a) 24 to 260V AC b) Contact input
RESET	Remote (Reset time: 20 ms)	Front, Remote, Auto	Front, Remote	No reset
MEMORY	10 Years	---	5 years	
SUPPLY VOLTAGE	85 to 270V AC/DC (AC : 50/60 Hz)		Battery Powered	
CERTIFICATION	---	---	CE	CE
ORDER CODE	TT412	T1103	LT920-C-CE LT920-V-CE	LT945-C-CE LT945-V-CE



XC410 Cutout Size : 29 x 71
XC10D Cutout Size : 46 x 92
XC22B Cutout Size : 69 x 69
XC200NX Cutout Size : 69 x 69 : 46 x 92
XC1200 Cutout Size : 22.5 x 45.5
LXC900 Cutout Size : 46 x 46
XTC5400 Cutout Size : 46 x 46

MODEL (Bezel Size)	XC410 : XC10D (36 X 72 : 48 X 96)		XC22B (72 X 72)	XC200NX : XC1200 (72 X 72 : 48 X 96)		LXC900 (24 X 48)	XTC5400 (48 X 48)
DISCRIPTION	6 Digit totaliser		4 Digit, Preset Counter	Multifunction Quadrature input, 2 set point		LCD Counter	Multi function, Multi range timer counter
DISPLAY	6 digit		4 digit	Total : 6 digit, Rate : 5 digit		8 digit	4 + 4 digit
OPERATING MODES	—		On delay / Interval delay / Auto reset	On delay / Interval delay / Auto reset / Time pulse repeat		—	Timer : On delay / Interval / Cyclic on first / Cyclic off first / batch. Counter : On delay / Interval / Auto reset, Time pulse repeat, batch
TIME RANGE	999999 counts		9999	Selectable least count: 0.0001, 0.001, 0.01, 0.1 & 1 Rate: 4.00 to 99999 RPM/RPH		99999999 counts	Timer: 99.99/999.9/9999sec, 99:59min:sec, 999.9/9999min 99:59hr:min, 999.9/9999hr Counter: -999 to 9999 counts
RESET	Front, Remote		Front, Remote, Auto (Optional)	Front (user selectable), Remote		Front, Remote	Front, Remote, Power Interruption
MEMORY	Yes		Yes	Yes		—	Yes
DIRECTION	Up		Up	Up, Down, Bidirectional, Quadrature		Up	Timer : Down Counter : Up / Down
SETPOINT	—		1	2		—	2
INPUT SPEED	a) 0 to 20 Hz, b) 0 to 1 kHz	a) 3 Hz, 30 Hz, b) 1 kHz	a) 0 to 30Hz. b) 0 to 5kHz	a) 0 to 30Hz. b) 0 to 2.5kHz, c) 0 to 5kHz		a) 14 Hz b) 100 Hz	a) 3Hz b) 30Hz, c) 5kHz
SCALE FACTOR	—		—	0.00001 to 9.99999 x 10 ⁿ n = -5, -4, -3, -2, -1, 0, 1, 2		—	0.001 to 9.999 x 10 ⁿ n = -3, -2, -1, 0, 1, 2
OUTPUT CONTACTS	—		2 C/O (DPDT)	2, 2 Relays each 1 C/O		—	2, 2 Relays each 1 NO
SENSOR TYPE	NPN, PNP		NPN, PNP	NPN		—	NPN, PNP
SUPPLY VOLTAGE	90 to 270V AC / DC, 24V AC/ DC optional for XC410		230V AC, 110V AC	85 to 270V AC/DC		Battery powered	85 to 270V AC/DC (AC : 50 or 60Hz) Optional : 24V AC/DC
CERTIFICATION	CE (Only for XC410)		—	CE (Only for XC1200)		CE	CE
ORDER CODE	XC410, XC410-24 XC10D		XC22B-4-230 XC22B-4-AR-M1-230	XC200NX XC1200		LXC900-C LXC900-V	XTC5400 XTC5400-24

Rate Indicators / Switch



RC5100 Panel Cutout : 46 x 46
RC2100 Panel Cutout : 69 x 69
RC100 Panel Cutout : 46 x 92
RC102C Panel Cutout : 46 x 92
RC2106 Panel Cutout : 69 x 69
RC2108 Panel Cutout : 72 x 72

MODEL (Bezel Size)	RC5100 (48 X 48)	RC2100 (72 X 72)	RC100 (48 X 96)	RC102C (48 X 96)	RC2106 (72 X 72)	RC2108 (72 X 72)
Description	Rate Indicator			Rate Indicator & Totaliser	Rate Indicator (scalable input)	Rate switch (scalable input) with Alarm
DISPLAY	4 digit			Count: 6 digit, Rate: 4 digit	4 digit	
RANGE	4.00 to 9999 RPM			Count: 0.01 to 999999 Rate: 4.00 to 9999 rpm	4.00 to 9999 RPM	
RESET	---			Front, Remote	---	
SETPOINT	---			---	2 (Low alarm & High alarm)	
RELAY RATING	---			---	5 A @ 230V AC / 24V DC.	
INPUT SPEED	4 to 9999 pulses per minute			a) 0 to 30Hz, b) 0 to 2.5kHz	upto 3.5kHz	
SCALE FACTOR	---			0.00001 to 9.99999 X 10 ⁿ . n = -3, -2, -1, 0, 1, 2	0.001 to 9.999 X 10 ⁿ . n = -3, -2, -1, 0, 1, 2	
SENSOR TYPE	PNP	PNP / NPN*	PNP	NPN / PNP	PNP	
SUPPLY VOLTAGE	85 to 270V AC / DC 5. Unidirectional (Up)					
COMMON FEATURES	1. Sensor Supply : Inbuilt, 12V DC, ±10%, 30mA. 2. Unidirectional (Up) 3. Input Type : a) voltage Pulse : 3 to 30V DC from proximity switches, encoder solid state devices. b) Potential free contacts.					
CERTIFICATION	---	---	---	CE	---	---
ORDER CODE	RC5100	RC2100	RC100	RC102C	RC2106	RC2108

* For NPN configuration please contact factory (applicable for RC2100)

Flexible PLC with IO Cards



Flexys Panel TX4



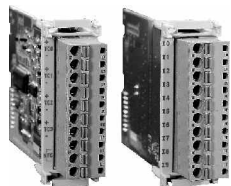
Flexys Rail

Features

- Compact PLC with Inbuilt HMI (For Flexys panel TX4)
- Blind PLC with LED indication (For Flexys Rail)
- Flexible card selection

MODEL (BEZEL SIZE)	FLEXYS PANEL TX4 (96 X 96)	FLEXYS RAIL (140 X 72)
USER INTERFACE	LCD (Backlight) 4 line x 16 Character + 18 keys	12 LEDs to indicate card status for selectable slot, One 7 segment display to indicate slot no, Card failure indicated by blinking display
COMMUNICATION INTERFACE	1. RS485 Slave (For Downloading Ladder Program), 2. RS485Master for IO610 Expansion 3. Proprietary for IO630 Expansion	
COMMUNICATION PROTOCOL	Modbus RTU & Proprietary Protocol for IO630 Expansion	
REAL-TIME CLOCK (RTC)	Yes (With 10 years battery life from date of manufacture)	
MOUNTING	Panel Mount	Din Rail Mount
SUPPLY VOLTAGE	1: 230V AC (90-270V), 2: 24V DC (18-26V)	24V DC (18-26V)
SENSOR SUPPLY (SS)	10V (100mA available only in 230V power supply card)	
SIZE (BEZEL / CUTOUT) / DIMENSIONS)	99 x 95.6 x 90.5mm	140 x 93.4 x 72mm
FAST COUNTER INPUT	2 Channel (Unidirectional, Bidirectional, Quadrature, Dual Unidirectional) : 5 kHz (On power supply card only)	
ORDER CODE	FL-TX4-PS-230V (230V AC Power supply card) FL-TX4-PS-24V (24V DC Power supply card), FL-TX4-LG-1-1-1	FL-RL-PS-24V , FL-RL-LG-1-1-1, FL-RL-BS-6

IO Cards for Flexys Series



I/O Cards

	Description	Order Code
Digital Input	10 PNP (7 to 30V DC)	FL-SC-DI10
Analog Input	4 Channel (Thermocouple / 0-60 mV)	FL-SC-AI04-TC
	3 Channel (RTD Type)	FL-SC-AI03-RTD
	5 Channel (0-10V)	FL-SC-AI05-V
	5 Channel (0-20 mA)	FL-SC-AI05-I
Digital Output	8 Relay (5A Resistive @230V AC / 30V DC)	FL-SC-RO08
	8 Transistorised (PNP type, 24V@100mA)	FL-SC-TO08
Analog Output	4 Channel (0-10V / 0-20mA)	FL-SC-AO04-V/I

Touch Screen



SP3-GT35

Features

- 3.5" LCD with Touch Screen
- 10 password levels
- Alarms
- Recipe Management
- Serial Printing
- Data Logging

MODEL (BEZEL SIZE)	SP3-GT35 (96 X 96)			
DISPLAY SIZE (INCHES)	3.5" (diagonal)			
TOUCH SCREEN	Yes (Resistive)			
DISPLAY TYPE	8 bit color			
RESOLUTION IN PIXELS H-V (INCHES)	320 x 240			
BACKLIGHT	LED backlight			
BACKLIGHT ADJUSTMENT	Yes (Via Software)			
USER MEMORY	16 MB			
BACKUP MEMORY	2 GB (micro SD)			
COMMUNICATION PORTS	Ports	Interface	Protocol	Configuration
	COM1	RS232	Modbus RTU	Slave
	COM2	RS485	Modbus RTU	Master
	COM3	RS232	ESC/P	Serial printer (slave)
KEYS	5 function keys +1 system key			
OPERATION VOLTAGE	18 - 30V DC			
REAL TIME CLOCK (RTC)	Built-In			
BACKUP BATTERY	Replaceable 3V CR2032			
OPERATION TEMPERATURE	0 to 55 Deg C			
STORAGE TEMPERATURE	-30 to 80 Deg C			
HUMIDITY (NON-CONDENSING)	95% RH			
DIMENSIONS (W X H X D) MM	96 x 96 x 53			
SOFTWARE	Windows based programming software			
ORDER CODE	SP3-GT35			

■ Expandable PLCs with fast IO Expansion



MM3030



MM3032

Features

- Compact fixed configuration PLC with Inbuilt HMI
- Special port for IO expansion(Except MM3032)

MODEL (BEZEL SIZE)	MM3030-1 (96 X 96)	MM3030-2 (96 X 96)	MM3030-4 (96 X 96)	MM3030-3-P1 (96 X 96)	MM3032-P1 (96 X 96)
USER INTERFACE	LCD (Backlight) 4x16+15 keys				LCD (Backlight) 2x16+10 keys
DIGITAL INPUT	10 PNP - 11 to 30V DC			8 PNP - 5 to 16V DC	
FAST COUNTER INPUT	FC0- I0 & I1- Rate/Totalizer, FC1- I2 & I3- Rate/Totalizer, FC2- I4 & I5- Totalizer (0 to 7.5/20kHz)*				
ANALOG INPUT	2 channels (Voltage (0-10V), Current (0-20mA)) (Selectable via jumper)				
DIGITAL OUTPUT	8 (Transistorized)*			6 (Relay, 3A resistive@240V)	
FAST OUTPUTS	2 channels (Pulse output - 50kHz)				—
COMMUNICATION INTERFACE	RS232 (Slave), IO Expansion port	RS485 (Slave), RS485 (Master) / IO Expansion port	RS485 (Slave), RS485 (Master)	RS232 (Slave), IO Expansion port	RS232 (Slave)
COMMUNICATION PROTOCOL	MODBUS RTU: RS232, Proprietary: IO630 expansion	MODBUS RTU: RS485 / IO610 expansion* Proprietary: IO630 expansion	MODBUS RTU: RS485 / IO610 expansion	MODBUS RTU: RS232, Proprietary: IO630 expansion	MODBUS RTU: RS232
REAL-TIME CLOCK (RTC)	Yes			No	
MOUNTING	Panel & DIN rail				
SUPPLY VOLTAGE	24V DC (-15% to 20%)			230V AC (-15% to 20%), 50Hz	

■ Compact PLCs with flexible card selection



MM3010

Features

- Compact PLC with inbuilt HMI
- Easy configuration via card selection

MODEL (BEZEL SIZE)	MM3010 (96 X 96)
USER INTERFACE	LCD (Backlight) 4 x 16 characters + 18 keys
DIGITAL INPUT	8 / 13 / 19 + 1 Quad (11 - 28V DC (abs. max.: 30V DC))
FAST COUNTER INPUT	Unidirectional, Bidirectional: 7.5 kHz. Quadrature: 2.5 kHz
ANALOG INPUT	2 / 4 / 6 (Thermocouple, RTD, 0-20mA, 0-10V, 0-60mV) (16 Bit except mV - 10 Bit)
DIGITAL OUTPUT	4 / 8 (Relay, 5A resistive@240V) / 11 (Relay, 3A resistive@240V) / 14 (Transistor, 100mA each)
ANALOG OUTPUT	2 (0-20mA, 0-10V) (14.5 Bit)
COMMUNICATION INTERFACE	RS485: Serial communication (Master / Slave) RS232: For downloading ladder program (Slave)
COMMUNICATION PROTOCOL	MODBUS RTU : IO610 expansion
REAL-TIME CLOCK (RTC)	Yes
MOUNTING	Panel
SUPPLY VOLTAGE	230V AC (-15% to 20%), 50Hz / 24V DC (-15% to 20%)

■ Low cost solution for small applications



MM1010

Features

- Compact PLC with LED based HMI

MODEL (BEZEL SIZE)	MM1010-1 (48x96)	MM1010-2 (48x96)	MM1012 (48x96)	MM1015 (48x96)
USER INTERFACE	7 segment LED, (3 + 4 + 4) digit + 5 keys			
DIGITAL INPUT	8 PNP - 11 to 30 V DC		6 PNP - 11 to 30 V DC	10 PNP - 11 to 30 V DC
ANALOG INPUT	1 CH - TC / RTD	1 CH - 0-10V / 0-20mA	2CH - TC / RTD / 0-10V 0-20mA (User selectable)	—
DIGITAL OUTPUT	5 (Relay, 5A / 3A resistive@240V / 24V)		4 (Relay, 5A / 3A resistive@240V / 24V)	6 (Relay, 3A resistive@240V)
ANALOG OUTPUT	—		1CH 0-10V / 0-20mA	—
COMMUNICATION INTERFACE	RS485 (slave) via MODBUS RTU			
MOUNTING	Panel			
SUPPLY VOLTAGE	230V AC (-20% / + 15%), 50Hz / 24V DC (-5% / +20%)			

■ IO Expansion Modules



IO610-4RO

IO630-4RO

Features

- Up to 31 modules per controller.
- DIN rail mounting


MODEL (BEZEL SIZE)	IO610/630-8DI	IO610/630-4RO	IO610/630-4TO	IO610/630-2AI-TCR	IO610/630-2AI-VI	IO610/630-2AO
NO OF INPUT/OUTPUT	8 Digital input	4 Relay output	4 Transistor output	2 Analog input (TC/RTD)	2 Analog input (V/I)	2 Analog output (V/I)
POWER SUPPLY	100mA@24VDC					
PROTOCOL	MODBUS RTU for IO610 (RS485)			PROPRIETARY PROTOCOL for IO630		

* For further details please refer products datasheet


Certification & Compliances

- UL, and CE marking on most of the products
- Type tests as per relevant standards ● ISO 9001-2008

CERTIFICATE OF COMPLIANCE



This is to certify that the
QUALITY MANAGEMENT SYSTEM of
SELEC CONTROLS PVT. LTD.
Regd. Office: E-121, Ansa Industrial Estate, Saki Vihar Road, Andheri (East),
Mumbai - 400 072, Maharashtra, India.
Factory: Plot No. EL-27/1, Electronic Zone, T. T. C., Industrial Area, M. I. D. C.
Mahape, Navi Mumbai - 400 710, Maharashtra, India.
has been assessed by International Certification Services Pvt. Ltd. and registered as
complying with the requirements of the following International Standard:
ISO 9001:2008
The Quality Management System applicable to:
Scope: To Design, Manufacture and Supply of Electronic Process Control
Instruments like PLC's, Temperature Controllers, Process Indicators,
Timers, Counter, Sensors, Meters and Protection Relays.
Registration No. : RQ91/442
Registered Date : 07th January, 2002.
Reassessment Date : 13th January, 2010.
Issue Date : 14th January, 2010.
Expiry Date : 30th December, 2012.



Accredited by Joint Accreditation System of Australia and New Zealand

ISO 9001 : 2008

UL CERTIFICATION

ONLINE CERTIFICATIONS DIRECTORY

QUYX2.E253771
Process Control Equipment, Electrical - Component

Process Control Equipment, Electrical - Component

See General Information for Process Control Equipment, Electrical - Component

SELEC CONTROLS PVT LTD
ANSA INDIA ESTATE, E11/120/113
SAKI VIHAR ROAD
ANDHERI(E)
MUMBAI, MH 400072 INDIA

Temperature controllers, Types PID 500, PID 500-24V, PID 518, PID 528-24V, PR 502, PR 502-24V.
Counters, Types XTC 5400, XT 5042.

The acceptability of this device with a specific end product is dependent upon the following conditions of acceptability:
1. The transducer is intended for panel mounting. Only the front portion of the overall enclosure has been evaluated as the ultimate enclosure.

CE **EC Declaration of Conformity**

Name: Selec Controls Pvt. Ltd.
Address: EL-27/1, Electronic zone, TTC Industrial Area,
Mahape, Navi Mumbai-400072, India.

Declare under sole responsibility that the following described products

Product Name: Multifunction Meters
Model Type: MFM384 / MFM384-C
Year in which CE Mark was affixed: 2011

To Which this declaration relates is in conformity with the following standards:


BS EN 61326-1	2006	EMC
BS EN 61010-1	2010	Safety requirements

Following the provision of EU Directives
2006/95/EC: Low voltage directive
2004/108/EC: EMC directive.


CPRI TEST REPORT

CPRI

TEST REPORT



Central Power Research Institute
(A Govt. of India
P.B.No. 8066, Sadashivan
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Bangalore - 560 08



TEST REPORT

Government of India
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Electronics Regional Test Laboratory (west)
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E-mail: crl@stqcwest.org

Leading By Professional Services

Organisation

Our dedicated team is our primary strength & is committed to excellence and customer support & service.

Total staff strength : 290+

Engineering : 69

Sales : 70

Production : 129

Admin : 35

Global Network

- In over 35 countries and growing
- Our Subsidiaries - Selec GmbH ● Selec USA



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Temperature Controllers / Process Indicators



- Economic PID Temperature Controllers
- Advanced PID Temperature Controllers
- Process Indicators

Applications:

Plastic Process, Packaging, Ovens, Metal Industries, Furnaces, Scientific, Medical, Pharmaceutical etc.



Timers | Leading in innovation - New 600 series



- 17.5mm DIN Rail Timers
- 22.5mm DIN Rail Timers
- 8 Pin Socket / Panel Mount Timers
- Digital Timers

Applications:

Electrical Panels, Switchgear, Packaging, Printing and other measuring



Counters



- Counters - LED/LCD
- Time Totalisers - LED/LCD
- Rate Meters
- Programmable Counters/Batch Controllers

Applications:

Measurement of RPM, Flow, Speed, Length, Production monitoring in all industries.




Selec Controls Pvt. Ltd. (An ISO 9001:2008 Company)

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