



- ▶ Meters
- ▶ PLCs
- ▶ Temperature Controllers
- ▶ Timers
- ▶ Counters
- ▶ Process Indicators
- ▶ Protection Relays

Multifunction Meter



MFM384
Cutout Size: 92 x 92



MFM374
Cutout Size: 92 x 92



MFM383A
Cutout Size: 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, 8 digits for energy	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	10mA - 5A AC (6A max)		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
PT SECONDARY	100 to 500V AC (L-L) (programmable for any value)		
COMMUNICATION	RS485 MODBUS Communication (Optional)		
SUPPLY VOLTAGE	85 to 270V AC		
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* & Apparent* Energy (Total)		
MEASUREMENT RANGE	19-519V AC (L-L), 11-300V AC (L-N) 10mA-5A (6A max), 45-65Hz, PF = -1 to +1		
CERTIFICATION	CE	CE	CE
ORDER CODE	MFM384, MFM384-CU MFM384-C, MFM384-C-CU	MFM374, MFM374-CU	MFM383A, MFM383A-CU

■ Separate model available

*Not available in MFM383A

VAF Meter



VAF36A
Cutout Size: 92 x 92



VAF39A
Cutout Size: 92 x 92

MODEL (Bezel Size)	VAF36A (96 x 96)	VAF39A (96 x 96)
DISPLAY	Liquid crystal display (with backlight)	7 segment LED; Height: 0.5"
DIGITS	3 rows of 3 digits, Bargraph for current	3 rows of 3 digits
INPUT TYPE	3 Ø - 3/4 wire, 2 Ø - 3 wire, 1 Ø - 2 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) 50mA - 5A AC (6A max.)	
SUPPLY VOLTAGE	230V AC ±20% (50Hz), 110V AC ±20% (60Hz)	
CERTIFICATION	CE	CE
ORDER CODE	VAF36A-230-CE, VAF36A-230-CU VAF36A-110V, VAF36A-110V-CU	VAF39A-230-CE, VAF39A-230-CU VAF39A-110V, VAF39A-110V-CU

Energy Meter



EM306A
Cutout Size: 92 x 92



EM368/EM368C
Cutout Size: 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 ±20% (50/60Hz)	85 to 270V AC (50/60Hz)
CERTIFICATION	—	CE
ORDER CODE	EM306A	EM368, EM368-CU, EM368-C, EM368-C-CU

DIGITAL PANEL METER



MA501
Cutout Size: 46.5 x 46.5



MA2301
Cutout Size: 67.5 x 67.5



MV207
Cutout Size: 67.5 x 67.5



MV2307
Cutout Size: 67.5 x 67.5

MODEL (BEZEL SIZE)	MA501; MA201 (48 X 48 ; 72 X 72)	MA2301 (72 X 72)	MV507; MV207 (48 X 48 ; 72 X 72)	MV2307 (72 X 72)
DESCRIPTION	Digital Ammeter	3Ø Ammeter with selector switch	Digital Voltmeter	3Ø Voltmeter with selector switch
DISPLAY	4 digit, Liquid Crystal Display with analog style bargraph indication		3 digit, Liquid Crystal Display with analog style bargraph indication	
MEASUREMENT RANGE	50mA - 5A AC (6.2A max)		50 - 480V AC (516V max)	
ELECTRICAL CONNECTION	1Ø - 2 wire	3Ø - 4 wire	1Ø - 2 wire	3Ø - 4 wire
ACCURACY	± 0.5% of F.S. (CT primary setting)		± 0.5% of F.S.	
CT PRIMARY SETTING	5 to 5000 (Programmable in steps)		---	
AUXILIARY SUPPLY	240 VAC (±20%), 50/60 Hz; 110VAC (±20%), 50/60 Hz			
CERTIFICATION	CE	CE	CE	CE
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	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



MA12 ; MA202 ; MA302
Cutout Size: 46 x 92 ; 67.5 x 67.5 ; 92 x 92



MV15 ; MV205 ; MV305
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-2A	MA12-AC-2/20mA	MV15 (48 X 96) MV205 (72 X 72) MV305 (96 X 96)	MV15-DC-200V	MV15-AC-20/200V
DESCRIPTION	Digital Ammeter					Digital Voltmeter		
DISPLAY	4 digit, 7 segment LED display					3 digit, 7 segment LED display	3½ digit, 7 segment LED display	
MEASUREMENT RANGE	0-5A AC (6.2A max)	0-75mv (0-5A), 6.2A max	20A direct	-1999mA to +1999mA	0- 1.999/19.99mA	50 - 480V AC (516V max)	-199.9V to +199.9V	0-19.99/199.9V
ELECTRICAL CONNECTION	1Ø - 2 wire					1Ø - 2 wire		
CT PRIMARY SETTINGS	5 to 4000							
SHUNT SETTINGS		5 to 4000						
ACCURACY	± 0.5% of CT primary/Shunt Setting					± 0.5% of F. S.		
SUPPLY VOLTAGE	240 VAC (±20%), 50/60 Hz; 110VAC (±20%), 50/60 Hz					240 VAC (±20%), 50/60 Hz; 110VAC (±20%), 50/60 Hz		
CERTIFICATION	CE	(Not applicable for MA302)	---	CE	---	CE	(Not applicable for MV305)	---
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-2A, MA12-DC-2A-CU, MA12-DC-2A-110V, MA12-DC-2A-110V-CU	MA12-AC-2/20mA, MA12-AC-2/20mA-CU, MA12-AC-2/20mA-110V, MA12-AC-2/20mA-110V-CU	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	---	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-2mA, MA12-DC-2mA-CU, MA12-DC-2mA-110V, MA12-DC-2mA-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	---	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



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	CE	(Not applicable for MF216 & MF316)
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

■ 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 (96x96)	MM3030-2 (96x96)	MM3030-3 (96x96)	MM3032 (96x96)
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	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:RS232, Proprietary: IO630 expansion	MODBUS RTU:RS232
REAL-TIME CLOCK (RTC)	Yes		No	
MOUNTING	Panel & DIN rail			
SUPPLY VOLTAGE	24V DC (-5% / +20%)		230V AC (-20% / +15%), 50Hz	

■ Compact PLCs with flexible card selection



MM3010

Features

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

MODEL (BEZEL SIZE)	MM3010 (96x96)
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 (-20% / +15%), 50Hz / 24V DC (-5% / +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



IO610-4R0

IO630-4R0

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

■ 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 / Current : 0/4 to 20 mA DC (max load 500E) / Voltage : 0 to 5/10V DC (min load 10K)		
AUXILIARY OUTPUT	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 cRU ^{us}	CE cRU ^{us}	CE cRU ^{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	230V AC
CERTIFICATION	CE cRU ^{us}	CE cRU ^{us}	CE cRU ^{us}	CE cRU ^{us}	CE cRU ^{us}	—	—

For order code information, refer pg no. 6

■ 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. 6

■ 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, Platinel 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	
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, Platinel 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%, ± 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	---		
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}	CE	CE

For order code information, refer pg no. 6

Ordering Information

TC544/TC244/TC344						
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	■	■	■			■

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				■

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		■	■	■

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
DTC204	DTC204A-2	Main O/P : Relay 1 - 10A@230V AC/30V DC, 12V DC SSR, 20mA Auxiliary O/P : Relay 2 - 5A@230V AC/30V DC		■	
DTC324	DTC324A-2			■	
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	±0.5% 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	—			CE cUL US E283771	
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	—			CE (Not applicable for 24V model)		
ORDER CODE	XT56-N	XT264	XT364	XT546 XT546-24	XT246 XT246-24	XT346 XT346-24

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

MODES*

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	CE cUL US LISTED-4576 IEC-60947-5-2
ORDER CODE*	600DT

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: ±5% of F.S. Repeat: ± 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, 0.3-3hr	240V AC, AC:(50/60 Hz)	CE 	600ST
13 Functions 10 Time ranges	600XU	Setting: ±5% of F.S. Repeat: ± 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: ±5% of F.S. Repeat: ±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: ±5% of F.S Repeat: ±0.5% (F.S. = Full Scale)	1 C/O relay each for star & delta	Star - Delta	Runup time: 3 sec - 30 sec, 6 sec - 60 sec Change over: 50/100 msec	230V 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 : ± 5% of full scale, Repeat : ± 0.5%

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

For 800PSR : Trip accuracy ±10V

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	—	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)	230 - 230V 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	Star: 30 / 60 sec Delta: 50 / 100 msec	110 - 110V AC, 230 - 230V AC 415 - 415V AC	CE 	800SD-2-230 800SD-2-110 800SD-2-415
Cyclic with unequal ON time & OFF time	800XC	2 C/O (DPDT)	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



642VTR-3

Size: 17.5 (W) x 89(H) x 59 (D)

Under Voltage Time Relay

DESCRIPTION	Under Voltage Time Relay	ACCURACY	Setting : ± 5% of full scale, Repeat : ± 0.5% or 50 msec (whichever is greater)
OUTPUT CONTACTS	1 C/O (SPDT)	RESET	On interruption of power (Reset time : Less than 100ms)
MODES	Under voltage time relay (ON delay)	SUPPLY VOLTAGE	30/4W, 380 to 415V AC, P-P, 50/60 HZ
TIME RANGE	5 to 15min	CERTIFICATION	—
RELAY RATING	5 A @ 230V AC / 24V DC, resistive load	ORDER CODE	642VTR-3
LED INDICATION	1) Power, 2) Relay		



600PSR



600VPR



800PSR

■ 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	ACCURACY	OUTPUT CONTACTS	MODES	TIME RANGES	SUPPLY VOLTAGE	CERTIFICATION	ORDER CODE
Phase Sequence Relay	600PSR	Trip accuracy ±10V	1 C/O (SPDT)	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	3Ø/3W 600PSR: 154 to 500V AC(L-L)	CE	600PSR
				600PSR-165/300: Phase Sequence, Phase Missing, Phase Failure Trip: <70% of 230V AC (L-L), Hysteresis: 6V	Response Time: 100 msec max. Power On Delay: 100 msec	600PSR-165/300: 161 to 300V AC(L-L), AC:(50/60Hz)	CE, UL LISTED 4576 IND. CONT. EQ	600PSR-165/300 -CU
Voltage Protection Relay	600VPR	Trip accuracy ±0.5% of F.S. Time accuracy ±5% of F.S	1 C/O (SPDT)	600VPR-310/520: Under voltage trip: -2.5% to -25% of 415V AC Over voltage trip: +2.5% to +25% of 415V AC	Trip time delay: 0.2 to 10 sec Power On Delay: 100 msec	3Ø/3W 600VPR-310/520: 310 to 520V AC(L-L)	CE	600VPR-310/520
				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: 170 to 290V AC(L-L) AC:(50/60Hz)	CE, UL LISTED 4576 IND. CONT. EQ	600VPR-170/290 -CU
Phase Sequence Relay	800PSR	Trip accuracy ±10V	1 C/O (SPDT)	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	3Ø/3W 154 to 500V AC (L-L) AC:(50/60Hz)	—	800PSR



■ 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:

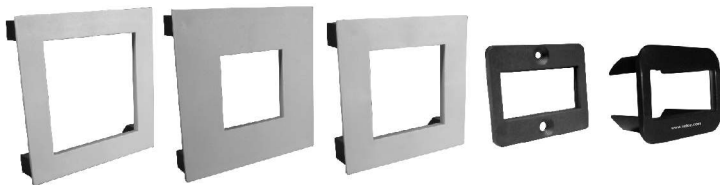
5 A @ 230V AC / 24V DC, resistive load

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, UL E253771	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, UL E253771	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)	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, UL E253771	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

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

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





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
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	Count: 0.0001 to 999999 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
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 2kHz	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		230	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 2.5Hz	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	PNP		
SUPPLY VOLTAGE	85 to 270V AC / DC 5. Unidirectional (Up)					
COMMON FEATURES	1. Sensor Supply : Inbuilt, 12V DC, 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)

TIME MEASURING INSTRUMENTS



TT412 : TT12
Cutout Size : 29 x 71 : 46 x 92



TT103
Cutout Size : 46 x 92



LT920
Cutout Size : 22.5 x 45.5



LT945
Cutout Size : 46 x 46

MODEL (Bezel Size)	TT412 : TT12 (36 X 72 : 48 X 96)	TT103 (48 X 96)	LT920 (24 X 48)	LT945 (48 X 48)
DISCRIPTION	Time Totaliser		Time Totaliser	
DISPLAY	6 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 TT12	TT103	LT920-C LT920-V	LT945-C LT945-V



Earth Leakage Relay

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)

LEAKAGE CURRENT	via CBCT (see accessories on page 2) 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)



CBCT FOR EARTH LEAKAGE RELAY

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

CURRENT TRANSFORMER



GENERAL SPECIFICATION	SPCT SERIES	AFCT SERIES
RATED PRIMARY RATING	30A To 4000A	30A To 300A
RATED SECONDARY OUTPUT	5A	5A
RATED BURDEN	1.5V To 15VA	1VA To 5VA
CLASS OF ACCURACY	0.5	1
OPERATING FREQUENCY	AC 50Hz- 60Hz	
INSULATION CLASS	E (120°C max)	
SYSTEM VOLTAGE	720V maximum	
APPLICABLE STANDARD	IEC/EN 60044 -1, BS 3938	

selec[®]
Creating Best Value

For more information visit us at www.selec.com

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

Factory:
EL-27/1, Electronic Zone,
TTC Industrial Area,
MIDC, Mahape,
Navi Mumbai 400710,
INDIA,

Sales Office:
E-121, Ansa Industrial Estate,
Saki Vihar Road, Andheri (E),
Mumbai 400 072. INDIA
Tel.: +91-22-4039 4200/4202
Fax: +91-22-2847 1733
Tollfree: 1800 227353 (BSNL/MTNL only)
Email: sales@selec.com,

Selec Controls USA., Inc.:
203 main Street # 205
Flemington,
NJ 08822, U.S.A.
Phone: 908-627-2149,
Fax: 732-960-8611,
Email: usa@selec.com,
Web: www.seleccusa.com

Selec GmbH :
Mollwitzstrasse 2,
D-14059, Berlin,
Tel: +49 3030111870,
Fax: +49 303011187-77,
Email: europe@selec.com
Web: www.selec-europe.com

Authorised Agent: