

PRODUCT SELECTION GUIDE

Etsilon



- ▶ TEMPERATURE CONTROLLERS
- ▶ PROCEEDS INDICATORS
- ▶ TIMERS & COUNTERS

- ▶ PROTECTION RELAY
- ▶ METERS
- ▶ POWER SUPPLY

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TC605
48(H) x 48(W) x 76(D)mm



TC602
72(H) x 72(W) x 44(D)mm



TC603
96(H) x 96(W) x 39(D)mm



TC615
48(H) x 48(W) x 76(D)mm



TC612
72(H) x 72(W) x 44(D)mm



TC613
96(H) x 96(W) x 39(D)mm



PI635-VI
48(H) x 48(W) x 76(D)mm



PI631-VI
48(H) x 96(W) x 30(D)mm

Temperature Controllers

Dual display

INPUT TYPE	Thermocouple (J, K, T, R, S) / RTD (PT100)
RESOLUTION	0.1 / 1° for TC / RTD (fixed 1° for R & S TC)
ACCURACY	For TC inputs: 0.25% of F.S. $\pm 1^\circ$; For R & S inputs: 0.5% of F.S. $\pm 1^\circ$ (20 min of warm up time); For RTD input: 0.1% of F.S. $\pm 1^\circ$
SETPOINT	Dual set point
CONTROL ACTION	Auto / Self tune PID or ON - OFF
OUTPUT	Control: Relay: SPDT 5A (SPST for TC605) resistive @250V AC / 30V DC or SSR (Field Selectable): 12V DC, 50mA Auxiliary: Relay: SPDT 5A (SPST for TC605) resistive @250V AC / 30V DC
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC

Single display

INPUT TYPE	Thermocouple (J, K, T, R, S) / RTD (PT100)
RESOLUTION	Fixed 1° resolution
ACCURACY	For TC inputs: 0.25% of F.S. $\pm 1^\circ$; For R & S inputs: 0.5% of F.S. $\pm 1^\circ$ (20 min of warm up time); For RTD input: 0.1% of F.S. $\pm 1^\circ$
SETPOINT	Single set point
CONTROL ACTION	Auto / Self tune PID or ON - OFF
OUTPUT	Control: Relay: SPDT 10A resistive @250V AC / 30V DC or SSR: 12V DC, 50mA
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC

Ordering information

PRODUCT CODE	OUTPUT 1		OUTPUT 2	SUPPLY VOLTAGE
	RELAY	SSR		
TC605	RELAY (5A)	SSR (12V DC)	RELAY (5A)	90 to 270V AC/DC
TC602	RELAY (5A)	SSR (12V DC)	RELAY (5A)	90 to 270V AC/DC
TC603	RELAY (5A)	SSR (12V DC)	RELAY (5A)	90 to 270V AC/DC
TC615	RELAY (10A)	SSR (12V DC)	---	90 to 270V AC/DC
TC612	RELAY (10A)	SSR (12V DC)	---	90 to 270V AC/DC
TC613	RELAY (10A)	SSR (12V DC)	---	90 to 270V AC/DC

Process Indicators

INPUT TYPE	Signal inputs (DC): 0 to 10V, 0/4 to 20mA
RESOLUTION	Decimal point position selectable: 1 / 0.1 / 0.01 / 0.001
ACCURACY	Signal input: $\pm 0.5\%$ of F.S. ± 1 digit
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC

Ordering information

PRODUCT CODE	INPUT	SUPPLY VOLTAGE
PI635-VI	VOLTAGE / CURRENT	230V AC
PI631-VI	VOLTAGE / CURRENT	90 to 270V AC/DC

Thumbwheel Timers



TTR735
48(H) x 48(W) x 76(D)mm



TTR732
72(H) x 72(W) x 83.7(D)mm



TTR733
96(H) x 96(W) x 73(D)mm

MODES	ON delay / Interval
SET POINT	Single set point
TIME RANGES	9.99 / 99.9 / 999 sec, 99.9 / 999 min, 99.9 / 999 hr (7 time ranges)
RESOLUTION	0.01sec
RESET / START INPUT	Pulse start Front panel, Terminal reset, On power interruption
ACCURACY	± 0.05% of set time or 50 msec (whichever is greater), Repeat: ± 0.05%
COUNT DIRECTION	DOWN
OUTPUT CONTACT	2 C/O SPDT
CONTACT RATING	5A @250V AC / 24V DC
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
TTR735	90 to 270V AC/DC
TTR732	90 to 270V AC/DC
TTR733	90 to 270V AC/DC

Programmable Timers



PTR725
48(H) x 48(W) x 76(D)mm



PTR745
48(H) x 48(W) x 76(D)mm



PTR742
72(H) x 72(W) x 44(D)mm



PTR743
96(H) x 96(W) x 39(D)mm

MODES	ON delay, Interval, Cyclic ON first, Cyclic OFF first
SET POINT	Single set point
TIME RANGES	9.99 / 99.9 / 999 sec, 9.59 min: sec, 99.9 / 999 min, 9.59 hr: min, 99.9 / 999 hr (9 time range)
RESOLUTION	0.01sec
RESET / START INPUT	Gate / Pulse start (programmable) Front panel, Terminal reset, On power interruption
ACCURACY	± 0.05% of set time or 50 msec (whichever is greater), Repeat: ± 0.05%
COUNT DIRECTION	UP / DOWN
OUTPUT CONTACT	2 C/O SPDT
CONTACT RATING	5A @250V AC / 24V DC
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
PTR725	90 to 270V AC/DC
PTR745	90 to 270V AC/DC
PTR742	90 to 270V AC/DC
PTR743	90 to 270V AC/DC

Count / Time Totaliser


CNT704

36(H) x 72(W) x 67.5(D)mm


CNT701

48(H) x 96(W) x 30(D)mm


HM714

36(H) x 72(W) x 67.5(D)mm

PRODUCT CODE	CNT704	CNT701	HM714
INPUT	NPN, PNP sensor, Potential free contacts		
RANGES	999999 counts	Counter: 999999, Rate: Auto ranging (4.00 to 9999 RPM)	a) 99999.9 sec, b) 999999 sec, c) 99999.9 min, d) 999999 min, e) 99999.9 hrs, f) 999999 hrs
RESET	Front panel reset, Terminal reset		
MEMORY	Yes		
DIRECTION	Up		
INPUT SPEED	20Hz, 5kHz (selectable via DIP switch)	3Hz, 5kHz (selectable via DIP switch)	---
SENSOR SUPPLY	12V DC @30mA		
SUPPLY VOLTAGE (AC: 50/60 Hz)	90 to 270V AC/DC		

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
CNT704	90 to 270V AC/DC
CNT701	90 to 270V AC/DC
HM714	90 to 270V AC/DC

Analog Timers


TXU858

75(H) x 22.5(W) x 105.5(D)mm


TXA838

75(H) x 22.5(W) x 105.5(D)mm


TSQA828

75(H) x 22.5(W) x 105.5(D)mm


TSD818

75(H) x 22.5(W) x 105.5(D)mm


TXC848

75(H) x 22.5(W) x 105.5(D)mm

PRODUCT CODE	TXU858	TXA838	TSQA828
MODES	ON delay / Interval		
TIME RANGES	1 / 3 / 10 / 30sec / min / hr	3 / 10 / 30 / 60sec / min	
RESOLUTION	0.1sec	0.3sec	
ACCURACY	Setting: ±5% of F.S. Repeat: ±0.5% or 50ms (whichever is greater)		
OUTPUT CONTACT	2 C/O SPDT		1 C/O SPDT
OUTPUT RATING	5A @250V AC / 24V DC		
SUPPLY VOLTAGE (AC: 50/60 Hz)	20 to 240V AC, 18 to 240V DC		230V AC & 24V AC/DC

PRODUCT CODE	TSD818	TXC848
MODES	Star - Delta	Asymmetrical Cyclic ON first or OFF first
TIME RANGES	Run up time: 30 / 60sec Change over: 50 / 100msec	1 / 10sec / min / hr for both ON & OFF time
RESOLUTION	---	0.1sec
ACCURACY	Setting: $\pm 5\%$, Repeat: $\pm 0.5\%$ of F.S. or 50ms	
OUTPUT CONTACT	1 C/O Relay each for Star & Delta	2 C/O SPDT
CONTACT RATING	5A @250V AC / 24V DC	
SUPPLY VOLTAGE (AC: 50/60 Hz)	230V AC	20 to 240V AC, 18 to 240V DC

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
TXU858	20 to 240V AC, 18 to 240V DC
TXA838	20 to 240V AC, 18 to 240V DC
TSQA828	230V AC, 24V AC/DC
TSD818	230V AC
TXC848	20 to 240V AC, 18 to 240V DC

Line Monitoring Relay



RSP808
76.85(H) x 22.5(W) x 105.5(D)mm

MODES	Phase failure: Yes, Phase sequence: Yes, Phase asymmetry: 30V fixed, Reset: Auto reset on removal of fault condition
TIME RANGES	Power ON delay: 200 msec
ACCURACY	±3% of F.S.
OUTPUT CONTACT	1 C/O (SPDT)
OUTPUT RATING	NC: 3A @250V AC / 30V DC, NO: 5A @250V AC / 30V DC
ELECTRICAL CONNECTION	3Ø - 3W
OPERATING VOLTAGE	154 to 500V AC (L - L)

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
RSP808	154 to 500V AC

Digital VAF Meter



VAF923
96(H) x 96(W) x 49(D)mm

ELECTRICAL CONNECTION	3Ø - 3W, 3Ø - 4W
RATED INPUT VOLTAGE	11 to 300V AC (L - N), 19 to 600V AC (L - L)
RATED INPUT CURRENT	Nominal 5AAC (Min - 20mA, Max - 7.2A)
ACCURACY	Voltage & Current: ±0.5% of F.S., Power Factor: ±0.01, Frequency: ±0.1%, Power: 1%,
CT PRIMARY	1 / 5A to 10kA (programmable for any value)
PT PRIMARY	100V to 500kV (programmable for any value)
SUPPLY VOLTAGE (AC: 50/60 Hz)	85 to 276V AC/DC

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
VAF923	85 to 276V AC/DC

Digital Voltmeters



VM911
48(H) x 96(W) x 26(D)mm



VM912
72(H) x 72(W) x 35(D)mm



VM913
96(H) x 96(W) x 36(D)mm

ELECTRICAL CONNECTION	1Ø - 2W
RATED INPUT VOLTAGE	50 to 480V AC
OVERLOAD CAPACITY	600V
ACCURACY	± 0.5% of F.S.
SUPPLY VOLTAGE (AC: 50/60 Hz)	240V AC ±20%

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
VM911	240V AC, ±20%
VM912	240V AC, ±20%
VM913	240V AC, ±20%



AM901
48(H) x 96(W) x 26(D)mm



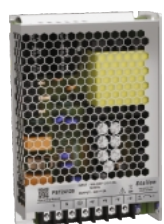
AM902
72(H) x 72(W) x 35(D)mm



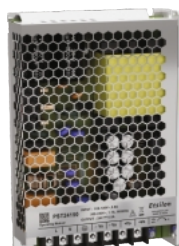
AM903
96(H) x 96(W) x 36(D)mm



PST24050
99(L) x 82(W) x 30(D)mm



PST24120
129(L) x 97(W) x 30(D)mm



PST24150
159(L) x 97(W) x 30(D)mm

Digital Ammeters

ELECTRICAL CONNECTION	1Ø - 2W
RATED INPUT VOLTAGE	5AAC (Min - 50mA ; Max - 7A)
ACCURACY	± 0.5% of F.S.
CT PRIMARY	5 to 4000A (programmable in steps)
SUPPLY VOLTAGE (AC: 50/60 Hz)	240V AC ±20%

Ordering information

PRODUCT CODE	SUPPLY VOLTAGE
AM901	240V AC, ±20%
AM902	240V AC, ±20%
AM903	240V AC, ±20%

Power Supply - Table Top Mounting Series

PRODUCT CODE	PST24050	PST24120	PST24150
INDICATION	LED indication for DC OK		
INPUT VOLTAGE RANGE	90-264V AC / 127-373V DC		85-132V AC / 170-264V AC by switch, 240-370V DC (switch on 230V AC)
FREQUENCY RANGE	47-63 Hz		
INPUT CURRENT	0.9A @115V AC; 0.5A @230V AC	2.2A @115V AC; 1.5A @230V AC	3A @115V AC; 1.7A @230V AC
EFFICIENCY	Up to 86%	Up to 89%	
INRUSH CURRENT	<45Amps; Measured at 230V AC, 25 °C Ambient, Cold start		<60Amps; Measured at 264V AC, 25 °C Ambient, Cold start
AVAILABLE RANGE DC VOLTAGE / CURRENT	24V/2.2A	24V/5A	24V/6.5A

Ordering information

PRODUCT CODE	INPUT VOLTAGE
PST24050	90 - 264V AC / 127 - 370V DC
PST24120	90 - 264V AC / 127 - 370V DC
PST24150	90 - 264V AC / 127 - 370V DC

PRODUCT CODE	DESCRIPTION	SIZE (in mm)	HSN CODE	UNIT MRP
TC605	Display: 4 + 4 digit, dual set point, Input: Thermocouple, RTD: PT100, Output: Relay / SSR	48 x 48	90328990	2063
TC602	Display: 4 + 4 digit, dual set point, Input: Thermocouple, RTD: PT100 Output: Relay / SSR	72 x 72		2053
TC603	Display: 4 + 4 digit, dual set point, Input: Thermocouple, RTD: PT100 Output: Relay / SSR	96 x 96		2053
TC615	Display: 3 digit, single set point, Input: Thermocouple, RTD: PT100 Output: Relay / SSR	48 x 48		1474
TC612	Display: 3 digit, single set point , Input: Thermocouple, RTD: PT100 Output: Relay / SSR	72 x 72		1579
TC613	Display: 3 digit, single set point, Input: Thermocouple, RTD: PT100 Output: Relay / SSR	96 x 96		1579
PI635-VI	4 digit process indicator with Voltage / Current input	48 x 48	90303390	1474
PI631-VI	4 digit process indicator with Voltage / Current input	48 x 96		1474
TTR735	3 digit display, single set point thumbwheel timer with on Delay / Interval mode	48 x 48	85364900	1737
TTR732	3 digit display, single set point thumbwheel timer with on Delay / Interval mode	72 x 72		2026
TTR733	3 digit display, single set point thumbwheel timer with on Delay / Interval mode	96 x 96		2026
PTR725	3 digit display, single set point programmable timer with selectable time range	48 x 48		1500
PTR745	3 + 3 digit display, single set point thumbwheel timer with on Delay / Interval / Cyclic mode	48 x 48		1895
PTR742	3 + 3 digit display, single set point thumbwheel timer with on Delay / Interval / Cyclic mode	72 x 72		1895
PTR743	3 + 3 digit display, single set point thumbwheel timer with on Delay / Interval / Cyclic mode	96 x 96		1895
CNT704	6 digit led display, Count totaliser with 20Hz/5kHz input speed	36 x 72	90291090	1447
CNT701	6 digit white display count totaliser / Rate indicator, with inbuilt sensor supply	48 x 96		1474
HM714	6 digit led display, Time interval meter	36 x 72	91069000	1474
TSQA828	Timer with on Delay / Interval modes, 3sec to 60mins, 1 C/O	DIN 22.5mm	85364900	658
TSDB818	Star delta timer, Run time: 30 / 60sec, Change over: 50 / 100ms	DIN 22.5mm		789
TXC848	Asymmetrical cyclic timer, 1sec to 10hr	DIN 22.5mm		1053
TXU858	Timer with on Delay / Interval modes, 1sec to 30hr	DIN 22.5mm		1091
TXA838	Timer with on Delay / Interval modes, 3sec to 60mins, 2 C/O	DIN 22.5mm		921
RSP808	3Ø-3W, Phase failure, Phase sequence, Phase asymmetry	DIN 22.5mm	85363000	658
VAF923	3Ø digital meter with LED display, Power, Power factor, RPM / RUN hour measurement, 230V AC.	96 x 96	90303310	1580
VM911	1Ø digital voltmeter with LED display, 230V AC	48 x 96		658
VM912	1Ø digital voltmeter with LED display, 230V AC	72 x 72		658
VM913	1Ø digital voltmeter with LED display, 230V AC	96 x 96		658
AM901	1Ø digital ammeter with LED display, 230V AC	48 x 96		658
AM902	1Ø digital ammeter with LED Display, 230V AC	72 x 72		658
AM903	1Ø digital ammeter with LED display, 230V AC	96 x 96		658
PST24050	50W, 24V/2.2A Surface / Panel mount power supply in metal casing	99 x 82 (L x W)	85044090	1171
PST24120	120W, 24V/5A Surface / Panel mount power supply in metal casing	129 x 97 (L x W)		1713
PST24150	150W, 24V/6.5A Surface / Panel mount power supply in metal casing	159 x 97 (L x W)		2434

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