

APM244-TC-2RL Temperature Display / Controller

■ DESCRIPTION

- Up to 5 Digit Red LED high-brightness Display.
- Input any Thermocouple type; K – J – T – R – S – N
- 2 relays can be programmed individually to be Hi / Lo / Hi Latch / Lo Latch / Energise with Start Delay / Hysteresis / Energised & De-energised Delay functions, or to be remote control.
- 1 external control input can be programmed to be Relative PV (Tare) / PV Hold / Maximum or Minimum Hold / DI (remote monitoring) / Reset for Relay Energised Latch....
- 20-56Vdc or 85-264Vac supply options.
- Front Panel mount as standard



Just 24 x 48mm
with 2 x Trips

■ TECHNICAL SPECIFICATION

Input

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T/C type K, J, T, R, E, B, S, N

➤ Any Input Temperature range to suit thermocouple type

Calibration:	Digital calibration by front key
A/D converter:	16 bits resolution
Accuracy:	$\pm 0.04\%$ of FS $\pm 1^\circ\text{C}$;
Sampling rate:	15 cycles/sec
Response time:	≤ 100 msec.(when the AvG = "1") in standard
Input type:	Thermocouple, with auto CJ compensation

Dimensions:	48w x 24h mm Front Bezel (Cut Out 45.0 x 22.5 mm)
	Housing Depth 105mm incl screw terminals

Display & Functions

LED:	Numeric: 5 digits, 0.4"(10.0mm)H red high-brightness LED Relay output indication: 4 square red LED RS 485 communication: 1 square orange LED E.C.I. function indication: 3 square green LED Max/Mini Hold indication: 2 square orange LED
Display range:	-19999~+29999;
Scaling function:	Lo.SC: Low Scale; Settable range: -19999~+29999 Hi.SC: High Scale; Settable range: -19999~+29999 Programmable from 0 / 0.0 / 0.00 / 0.000 / 0.0000
Decimal point:	
Over range indication:	ovFL, when input is over 120% of input range Hi
Under range indication:	-ovFL, when input is under -20% of input range Lo
Max / Mini recording:	Maximum and Minimum value storage during power on.
Display functions:	PV / Max(Mini) Hold / RS 485 Programmable
Front key functions:	Up and down key can be set to be a function as ECI.

Digital fine adjust:	Pv.Zro: Settable range: -19999~+29999
	Pv.Spn: Settable range: -19999~+29999

Reading Stable Function

Average:	Settable range: 1~99 times
Moving average:	Settable range: None / 1~10 times
Digital filter:	Settable range: None / 1~99 times

Control Functions(option)

Set-points:	Two set-points
Control relay:	2 Relays SPCO, 1A/230Vac, 3A/115V

Relay energised mode:	Energised levels compare with set-points: Hi / Lo / Hi.HLd / Lo.HLd programmable Energized by RS485 command of master: DO programmable
Energising functions:	Start delay / Energised & De-energised delay / Hysteresis / Energised Latch Start band(Minimum level for Energising): 0~9999counts Start delay time: 0:00.0~9(Minutes):59.9(Second) Energised delay time: 0:00.0~9(Minutes):59.9(Second) De-energised delay time: 0:00.0~9(Minutes):59.9(Second) Hysteresis: 0~5000 counts

External Control Inputs(ECI)

Input mode:	1 ECI points, Contact or open collect input, Level trigger
Functions:	Relative PV(Tare) / PV Hold / Reset for Max or Mini. Hold / DI / Reset for Relay Energised latch
Debouncing time:	Settable range 5 ~255 x (8m seconds)

