TEMPERATURE CONTROLS

VT10 - PID AUTOTUNE

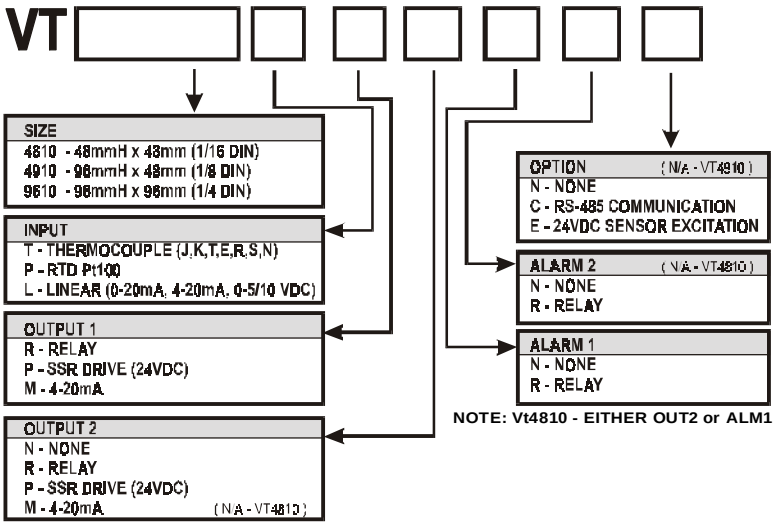
STANDARD

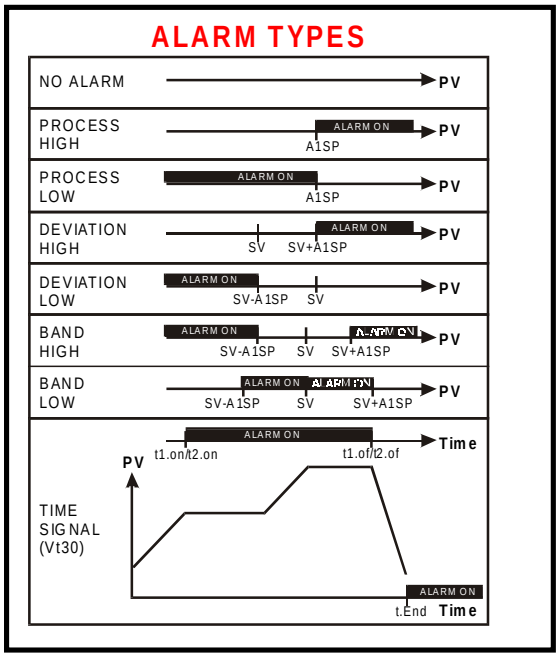
DUAL DISPLAY
PID AUTOTUNE
RAMP-TO-SETPOINT
AUTO / MANUAL
15 SECURITY OPTIONS
INPUT - Thermocouple,RTD,4-20mA

OPTIONS

DUAL OUTPUT
ALARMS - 15 TYPES
24VDC EXCITATION
Rs485 COMMUNICATIONS

MODEL CODE





SPECIFICATIONS - VT10, VT20, VT30

1. INPUT

Thermocouple	J, K, T, E, B, R, S, N (IPTS68/DIN 43710)
RTD	Pt100 ohms RTD (DIN 43760/BS 1904 or JIS)
Linear Voltage (current)	-10 to 60 mV confugurablewith input attenuation
Range	User configurable
Accuracy	+/-2C for T/C, _+0.2C for RTD, _+0.05% for Linear input.
Cold Junction Comp	0.1% ambient typical.
Input Impedance	10M ohms for T/C, 100K ohms for Linear Voltage, 2.7 Ohms for 0 (4)- 20 mA/
Excitation Current for RTD	0.2mA Max.
Sample Rate	VT10 - 250mS, VT20 - 200mS, VT30 - 200mS

2. CONTROL

Proportional Band	0.0-100.0%
Rest (Integral)	0-3600 Sec.
Rate (Derivative)	0-3600 Sec.
Anti Rest Windup	Inhibit integral action outside Proportion Band
Ramp Rate	0.0-100.0C / minute.
Dwell	minutes.
On-Off	With adjustable hysteresis
Cycle Time	0-99 seconds.
Control Action	Configurable for Direct (cooling) or Rev (Heating)

3. OUTPUT

Relay	5A/240VAC resistive.
Pulsed Voltage	Isloated 24 VDC 100mA Max.
Current	Isolated 0 (4) - 20 mA Max load 500 ohms.
Linear Volts	1~5, 0~5, 0~10VDC. MAX 100mA
Alarm	Relay output, (SPST) 10A/240VAC resistive.

4. POWER

Rating	85 - 265 VAC 50/60Hz 5VA max

5. ENVIRONMENTAL

Operating Temp	-10 - 50C
Humidity	0- 90%
Insulation	20M ohms minimum @ 500VDC

6. PHYSICAL DIMENSIONS

VT48	48mmW x 48mmH x 100mmD
VT49	96mmW x 48mmH x 80mmD
VT96	96mmW x 48mmH x 80mmD