

TEMPATRON

PJ32 Range of Controllers



Instruction Manual

Front Panel Functions



When pressed momentarily, allows upward adjustment of variables or steps forwards through the program parameters.

When pressed for 1 second, allows entry to the set point routine for set point 1.

The LED, when lit, indicates that control is in progress on set point 1.

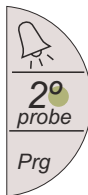


When pressed momentarily, allows down adjustment of variables or steps backwards through the program parameters.

When pressed for 1 second, allows entry to the set point routine for set point 2.

The LED, when lit, indicates that control is in progress on set point 2.

If both the above keys are pressed at the same time the unit will display the second probe temperature and the 2° button LED will light. The display will return to the 1st probe temperature after approx 5 seconds.



Pressing momentarily during normal operation will silence the alarm buzzer.

Pressing for longer than 5 seconds allows access to the program parameters. Access to the Frequent (F) parameters is open, whilst access to the configuration (C) parameters requires the password to be set using the up or down keys.

While setting program parameters, pressing momentarily will either display a parameters setting to allow adjustment using the up or down keys or signal confirmation of a newly input parameter value.

Pressing for longer than 5 seconds after entering a new parameter will store the revised value and exit the program parameter set-up routine.

Note : **For timing parameters only**, switch the unit off and on to make the new times immediately effective without waiting for the current cycle to end. The parameter set-up routine will exit automatically after 60 seconds of inaction. **The new values will not be stored.**

Error Messages



Probe 1 fault



Probe 2 fault



Immediate external alarm (di parameter)



Low temperature alarm (AL, Ad & A0 parameters)



High temperature alarm (AH, Ad & A0 parameters)



Data acquisition failure

Parameter Table**Frequent Parameter Menu**

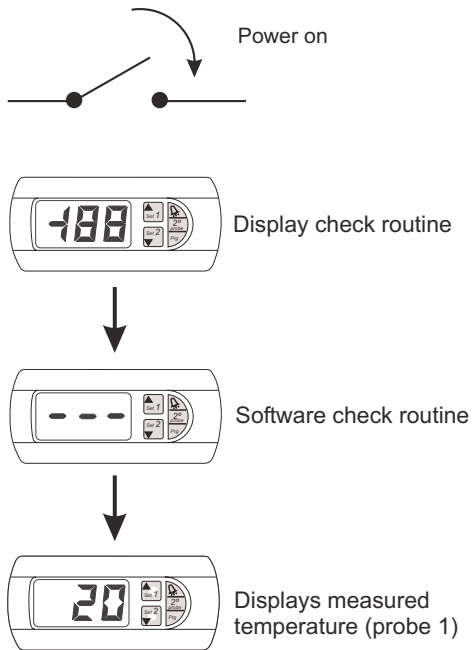
Code	Function	Min	Max	Units	Default
PS	Password	-	-	-	22
/5	Temperature units 0=°C or 1= °F	0	1	-	0
/6	Probe S2 measurement	-	-	°C/°F	-
P1	Hysteresis of set point 1 (0=0.5°C)	0	19	°C/°F	3
P2	Hysteresis of set point 2 (0=0.5°C)	0	19	°C/°F	3
AL	Low temperature alarm set-point	-50	AH	°C/°F	-50
AH	High temperature alarm set point	AL	150	°C/°F	150
H5	Unit identification code	-99	99	-	10

Full Configuration Parameter Menu

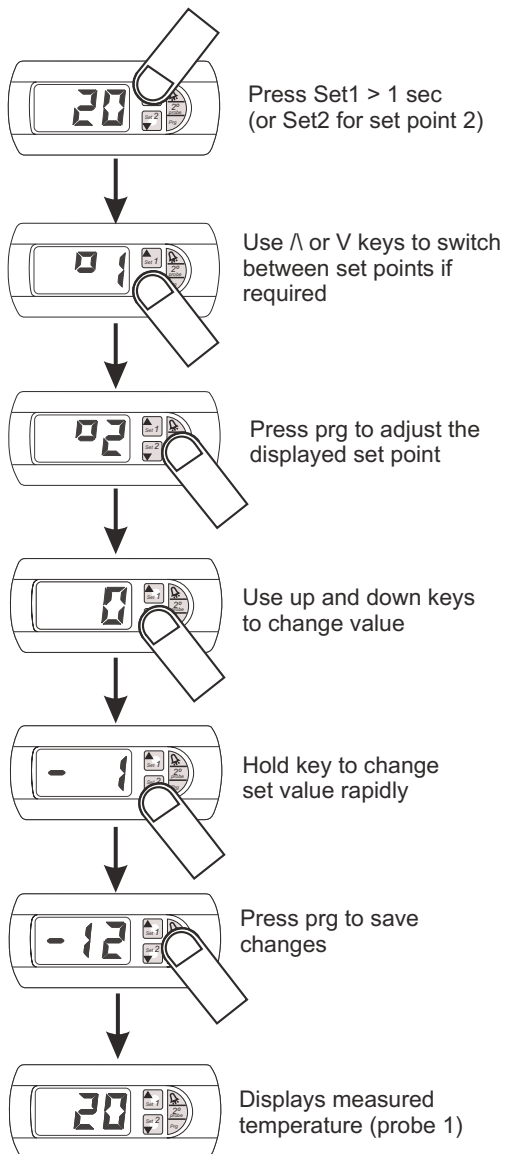
Code	Function	Min	Max	Units	Default
PS	Password	-	-	-	22
/2	Measurement stability	1	15	-	6
/4	Selection of probe to be displayed (0=S1, 1=S2)	0	1	-	0
/5	Temperature units 0=°C or 1= °F	0	1	-	0
/6	Probe S2 measurement	-	-	°C/°F	-
/C	Ambient probe calibration (x 0.1°C/°F)	-127	127	°C/°F	0.0
P1	Hysteresis of set point 1 (0=0.5°C)	0	19	°C/°F	3
P2	Hysteresis of set point 2 (0=0.5°C)	0	19	°C/°F	3
r1	Controller 1 mode (0=direct, 1=reverse)	0	1	-	0
r2	Controller 2 mode (0=direct, 1=reverse)	0	1	-	0
r3	Minimum set point	-50	r4	°C/°F	-50
r4	Maximum set point	r3	150	°C/°F	60
r5	Controller 2 probe selection (0=S1, 1=S2)	0	1	-	0
c0	Output activation delay from start-up	0	199	Sec	0
c1	Controller outputs minimum operation time	0	15	Min	0
c2	Controller outputs minimum off time	0	15	Min	0
c3	Controller start-up interlock (0=off, 1=on)	0	1	-	0
c4	Minimum time between start-up of outputs 1 and 2	0	199	Sec	0
A0	Alarm hysteresis (0=0.5°C/°F)	0	19	°C/°F	0
AL	Low temperature alarm set-point	-50	AH	°C/°F	-50
AH	High temperature alarm set point	AL	150	°C/°F	150
At	Internal temperature alarm delay	0	199	Min	0
Ad	External temperature alarm delay	0	15	Min	0
dI	Digital input operation mode (di=0 digital input not used)	0	2	-	0
H0	Reserved	0	199	-	1
H1	Alarm signal output mode (0=off)	0	1	-	1
H2	Output 2 mode (0=alarm, 1 = controller)	0	1	-	1
H3	Disable keypad (0=disabled)	0	1	-	1
H4	Disable alarm buzzer (1=disabled)	0	1	-	0
H5	Unit identification code	-99	99	-	10
t	Reserved				

PROGRAMMING FLOW CHARTS

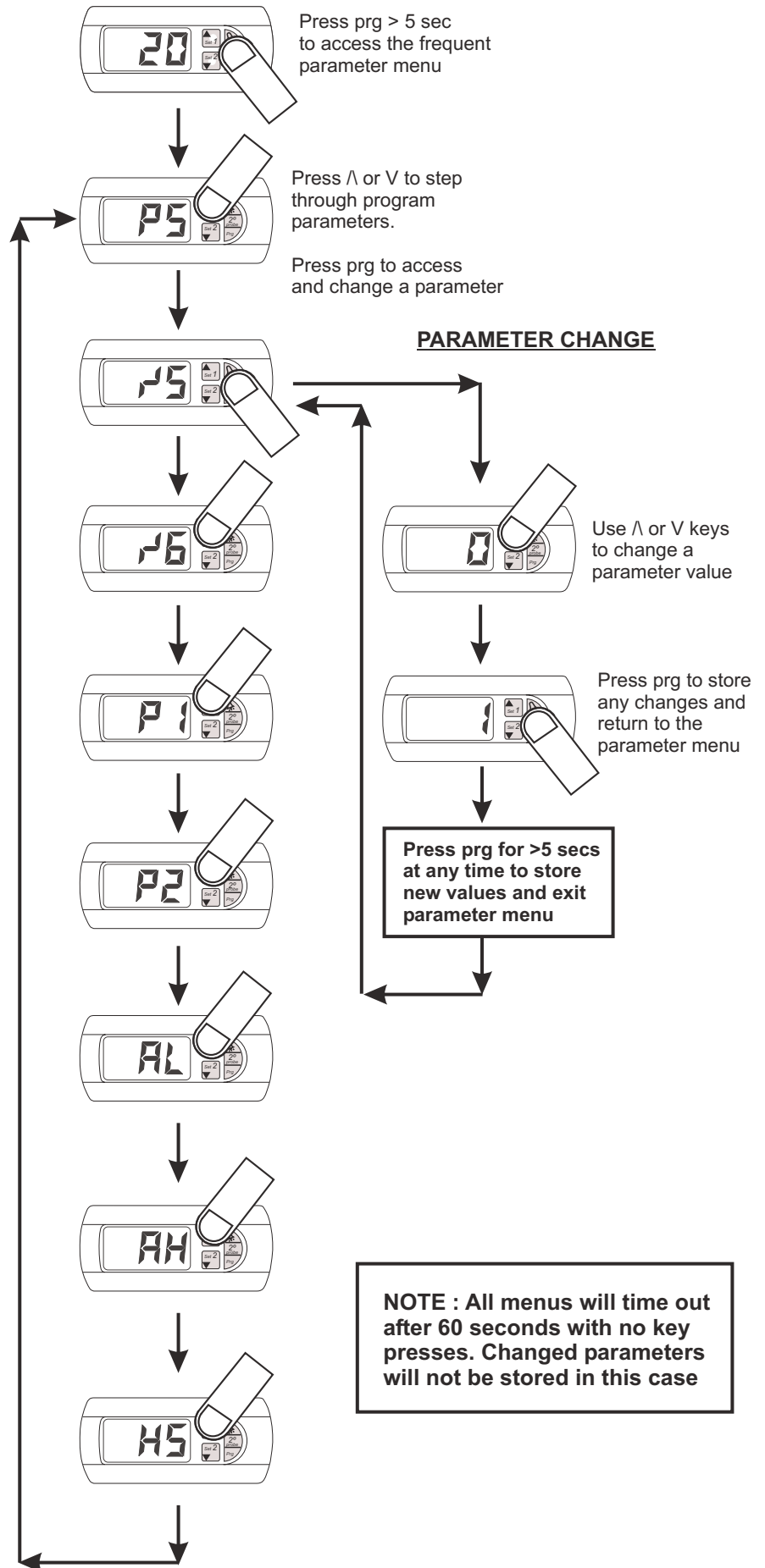
START-UP



SET POINT ADJUSTMENT



ACCESS TO FREQUENT PARAMETERS



ACCESS FULL CONFIGURATION PARAMETERS

* Only present in certain models

