



**SET-UP INSTRUCTIONS FOR THE WORLD HEAT WEST 6100+ CONTROLLER
FOR LTHW APPLICATIONS**

IMPORTANT NOTES

These instructions are suitable for;

- Low Temperature Hot Water (LTHW) to 82°C
- 0-10V DC Control Output
- PT100 Temperature Sensor

Key – Buttons Supplied

1. **AUTO/MAN**
2. **UP**
3. **DOWN**
4. **FUNCTION**



To Select Mode (see page 31 of Document: WEST – Plus Series Controllers & Indicators User Guide)

In order to move between the different set-up and operating modes available, enter select mode;

1. Hold down the FUNCTION key.
2. Press the UP key.
3. Release both buttons.
4. You are now in "Select Mode".
5. Press UP or DOWN keys to navigate to the required mode.
6. Press FUNCTION key to enter the selected mode.
7. Hold down the FUNCTION key and press the UP key, then release both buttons "Select Mode".

Configuration Mode (see page 36 of Document: WEST – Plus Series Controllers & Indicators User Guide)

In order to configure the controller to the required settings;

1. Enter "Configuration Mode" as per the procedure prescribed above.
2. Parameters will now appear on screen.
3. Press UP or DOWN keys to change the setting.
4. Press AUTO/MAN key to confirm the setting.
5. Press FUNCTION key to move to the next setting.

List of Parameters

Parameter	Description	Value
ULoc	Unlock Code	20
InPt	Probe type (PT100 – 128.8°C to +537.7°C)	pt. C
rUL	Range Upper Limit (°C)	110 (LTHW) / 130 (MTHW) / 130 (Steam)
rLL	Range Lower Limit (°C)	0
Ctyp	Control Type	SngL
Ctrl	Control Action	rEv
ALA1		none
ALA2		none



LAen		disA
inHi		none
USE1		Pri
Typ1	Output Type (0-10V DC)	0-10
DisP		1
CLOC	Configuration Lock Code (DON'T CHANGE)	20

Set-Up Mode (see page 44 of Document: WEST – Plus Series Controllers & Indicators User Guide)

In order to set-up the controller to the required settings;

1. Enter "Configuration Mode" as per the procedure prescribed above.
2. Parameters will now appear on screen.
3. Press UP or DOWN keys to change the setting.
4. Press FUNCTION key to confirm setting and move to the next setting.

List of Parameters

Parameter	Description	Value
ULoc	Unlock Code	10
FILT	Filter Time (seconds)	0.5
OFFS	Offset	0
PPLJ	Primary Heat Power (read only)	(read only)
Pb_P (*)	Proportional Band (% of input range) (1% = 1.1°C approx. for 0-110°C range)	5%
ArSt (*)	Integral Time (mins.secs)	1.00
rAtE (*)	Derivative Time Constant (mins.secs)	0.00
bias	% (Use a low bias to reduce overshoots – default is 25)	25
SPuL	Set-point Upper Limit (°C)	90
SPLL	Set-point Lower Limit (°C)	5
OPuL	Output Upper Limit (%) – use this to restrict valve if required)	100
Apt	Auto Pre-tune	disA
PoEn	Manual Control (Select Enable/Disable)	disA
SPr	Set-Point Ramping (Select Enable/Disable)	disA
rP	Set-Point Ramp Rate	(BLANK)
SP	Set-Point Value (°C)	82.0
SLoc	Set-Up Lock Code (DON'T CHANGE)	10

* Depending on system thermal inertia it may be necessary to further adjust PID settings to get stable control.

Operator Mode (see page 50 of Document: WEST – Plus Series Controllers & Indicators User Guide)

In order to adjust the set point;

1. Enter "OPTr Mode" as per the procedure prescribed above.
2. Press FUNCTION key.
3. Press UP and DOWN keys to change the set-point.
4. Press FUNCTION key to confirm setting and move to the next setting.