

UDC 1000 Limit Start Up Guide

- 1. Check Model Number.** See Appendix A in the Product Manual.
- 2. Verify Hardware Jumpers** for Input & Output. See Section (7.5 -7.6) in the Product Manual.
- 3. Install Unit.** See Wiring diagram in Section 3.3 in the Product Manual.
- 4. Set Hardware Configuration Codes.** See Section 6.2 in the Product Manual and sheet 2 attached.
- 5. Set Configuration Code Parameters.** See Section 6.3 in the Product Manual and sheet 3 attached.
- 6. Set the Setup Code Parameters.** See Section 4.1 - 4.2 in the Product Manual and sheet 4 attached.
- 7. Enter your Limit Setpoint.** See Section 4.2.1 in the Product Manual and sheet 5 attached.
Display indication operation : See Section 2.3 - 2.6 in the Product Manual.

Hardware Configuration Codes

1. Remove the Controller from the case. While you are inserting the controller back into the case, hold down the “↑“ and the SET UP” keys simultaneously. Keep these keys held in until “InPt” appears in the lower display. This is approximately 10 seconds:

2. Hold down the “↓ and the SET UP” keys simultaneously:

1701
dEFn

* Use the Raise/Lower key to make changes.

* Once **Change is made**, Press the **RESET** key to confirm.

* Press the SET UP key to Configure next Option.

* for Setting options see Page 6-1 in the Product Manual.

| First (left most) <i>INPUT</i> | Second Digit <i>OUTPUT 1</i> | Third Digit <i>OUTPUT 2</i> | Fourth Digit <i>OUTPUT 3</i> |
|---|---------------------------------|---|---|
| 1. RTD Linear MV 2. Thermocouple 3. Linear DCmA 4. Linear DC V | 1. Always set to a 1 | 0. Output 2 not installed. 1. Relay Output (Control or Alarm only) | 0. Output 3 not installed. 1. Relay Output (Alarm only) 3. DC Output 0-10 V (Recorder Output Only) 4. DC Output 0-20 mA (Recorder Output Only) 5. DC Output 0-5 V (Recorder Output Only) 7. DC Output 4-20 mA (Recorder Output Only) |

Press the SET UP key

nonE
OPEn

* This indicates the presence of a Option card.

nonE No Options

r485 Communication Card Installed

rrES External Remote Reset

To Exit:

Hold down the “↓ and the SET UP” keys simultaneously.

Configuration Mode Parameters

Remove the Controller from the case. While you are inserting the controller back into the case, hold down the “↑” and the SET UP” keys simultaneously. Keep these keys held in until “InPt” appears in the lower display. This is approximately 10 seconds:

- * Use the Raise/Lower key to make changes.
- * Once **Change is made**, Press the **RESET** key to confirm.
- * Press the **SET UP** key to Configure next Option.
- * For Setting options see Page 6-3 in the Product Manual.

| CODE | SETUP ITEM | INITIAL VALUE | SETTING | DEFINITIONS Product Manual |
|--------------|----------------------------|---------------|---------|-------------------------------|
| inPE | Input Code (See page A-2) | 1419 | | Section 6.3.1 |
| Ctrl | Limit Relay Action | Hi | | Section 6.3.2 |
| ALA1 | Alarm 1 Type | P hi | | Section 6.3.3 |
| ALA2 | Alarm 2 Type | P lo | | Section 6.3.4 |
| USER2 | Output 2 Usage | A1 d | | Section 6.3.5 |
| USER3 | Output 3 Usage | A2 d | | Section 6.3.6 |
| bAud | Baud Rate | 4800 | | Section 6.3.7 |
| Addr | Communication Address | 1 | | Section 6.3.8 |
| CjC | Cold Junction Compensation | EnAb | | Section 6.3.9 |
| Loc | Lockout Code | 10 | | Section 6.3.10 |

To Exit:

Hold down the “↑” and the SET UP” keys simultaneously.

Set Up Configuration Codes

1. Hold down the “↑ and the press the SET UP” key:

2. Set the “Uloc” to your Lockout code , then press the SET UP key. A “s” will appear in the right Display

* Use the Raise/Lower key to make changes.

* Once **Change is made**, Press the **RESET** key to confirm.

* Press the SET UP key to Configure next Option.

* For Setting options see Page 4-2 in the Product Manual.

| CODE | SETUP ITEM | INITIAL VALUE | SETTING | DEFINITIONS Product Manual |
|-----------------|-------------------------------|---------------|---------|-------------------------------|
| SP | Limit Setpoint | Range Min. | | Section 4.2.1 |
| FiLt | Digital Filter Constant | 2.0 sec. | | Section 4.2.2 |
| hYSE | Limit Hysteresis | 0 | | Section 4.2.3 |
| h_A1 | Process High Alarm 1 Value | Range Max | | Section 4.2.4 |
| l_A1 | Process Low Alarm 1 Value | Range Min | | Section 4.2.5 |
| b_A1 | Band Alarm 1 Value | 5 | | Section 4.2.6 |
| d_A1 | Deviation Alarm 1 Value | 5 | | Section 4.2.7 |
| h_A2 | Process High Alarm 2 Value | Range Max | | Section 4.2.8 |
| l_A2 | Process Low Alarm 2 Value | Range Min | | Section 4.2.9 |
| b_A2 | Band Alarm 2 Value | 5 | | Section 4.2.10 |
| d_A2 | Deviation Alarm 2 Value | 5 | | Section 4.2.11 |
| rhi | Linear High Range Value | 1000 | | Section 4.2.12 |
| rLo | Linear Low Range Value | 0 | | Section 4.2.13 |
| rPnE | Linear Decimal Point Location | 1 | | Section 4.2.14 |
| roPH | Recorder Output High Value | Range Max | | Section 4.2.15 |
| roPL | Recorder Output Low Value | Range Min | | Section 4.2.16 |
| CoEn | Communication Enable | 1 | | Section 4.2.17 |
| Loc | Lock Code Value | 10 | | Section 4.2.18 |
| ALSE | Alarm Status | Read only | | Section 2.3 |
| HiHd or LoHd | Max Input Temp | Read only | | Section 2.8 |
| Ei | Limit Time Exceed Value | Read only | | Section 2.8 |

To Exit:

* Press the “SET UP” key until the Process Variable is in the Upper display. Hold down the “↑“ and the press the SET UP” key .

* A automatic return to the Operating mode will be executed if there is no key activity in the Setup mode for 2 Minutes

INITIAL OPERATION

* **Limit Set Point** - Hold down the “↑” and the **SET UP**” key..Set the “**Uloc**” to your Lockout code ,using the ↑ ↓ keys. When the **Uloc** value is set press the **SET UP** key. Press the **SET UP** key again until Sp is in the lower display. Set this to where you want the Limit Relay to trip.

To Exit: Press the “**SET UP**” key until the Process Variable is in the Upper display.

Hold down the “↑” and the press the **SET UP**” **key**.

* **Resetting** Unit can be reset by pressing the **RESET** key once the **Exceed light** has been extinguished.

* **ALSt -Alarm Status** - Pressing the **SET UP** key repeatedly until **ALSt** is shown in the lower display. The upper display will show the alarm status:

| 2 | 1 |
|-----------------------|-----------------------|
| <u>Alarm 2 Status</u> | <u>Alarm 1 Status</u> |
| 2 = Active | 1 = Active |
| Blank = Inactive | Blank = Inactive |

* **Hold Value** Pressing the **SET UP** key repeatedly until **HiHd** (Hi Limit) or **LoHd** (Lo Limit) appears in the Lower Display. The Upper Display shows the current Hold Value. To Reset this Value hold the ↑ or ↓ key for 5 seconds. The Upper Display will go to ---- to indicate the parameter is reset.

* **Time Exceed Value** Pressing the **SET UP** key repeatedly until **Ei** appears in the Lower Display. The Upper Display shows the current Time Exceed Value. To Reset this Value hold the ↑ or ↓ key for 5 seconds. The Upper Display will go to ---- to indicate the parameter is reset.

* **Software Version-** Hold in **SET UP** key on power up.

* **CHH** -PV Overrange-

* **CLL** -PV Overrange-

* **OPEN** - Thermcouple Open