### DEFAULT JUMPER SETTINGS

**Table 5. Main Board Default Jumper Locations**

<table>
<thead>
<tr>
<th>Jumper Location(s)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3</td>
<td>“A, C, D” - installed on all models (Universal, Temperature, Strain and Process).</td>
</tr>
<tr>
<td>S4</td>
<td>“A” - installed for Universal, Process and Strain meters. 10 volt excitation. Remove “A” for Temperature meter - 24 volt excitation.</td>
</tr>
<tr>
<td>S5</td>
<td>“A” installed on all models, RESET ENABLE.</td>
</tr>
</tbody>
</table>

### Table 6. DC-Power Default Jumper Locations

<table>
<thead>
<tr>
<th>Jumper Location(s)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>“A” - installed on Universal, Process and Strain meters. 10 volt excitation. “B” - installed for Temperature meter. 24 volt excitation.</td>
</tr>
</tbody>
</table>

When you change the excitation output from 10 to 24 volts, or vice versa, you must change the S4 jumper on the main board and the S1 jumper on the DC powered board.

---

### Addendum

To the Manuals --

- 11210ML-02 (M1251) - Temperature
- 11279ML-01 (M1291) - Strain
- 1097ML-02 (M1260) - Process

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**1-800-634-7678**

- **1-800-NEWPORT**

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  - Tel: (514) 335-2183 FAX: (514) 856-8986
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  - En Español: (55) 203-359-7803 e-mail: espanol@newportlc.com

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  - United Kingdom: ISO 9001 Certified
  - One Omega Drive • River Bend Technology Centre
  - Northbc, Irvin • Manchester, M44 5EX England
  - Tel: (44) (161) 777-6611 FAX: (44) (161) 777-6622
  - Toll Free: 0800-489-486 e-mail: info@newportinc.co.uk
<table>
<thead>
<tr>
<th>Jumper Location</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3A</td>
<td>Install to store data and set up parameters in nonvolatile memory.</td>
</tr>
<tr>
<td>S3B</td>
<td>Do not install. When installed you may change calibration data via digital communication.</td>
</tr>
<tr>
<td>S3C</td>
<td>Install to disable lock-out menu. Remove to enable lock-out features. Install to stop unauthorized tampering with lockout features.</td>
</tr>
<tr>
<td>S3D</td>
<td>Install to enable all pushbutton front-panel programming. Remove to secure against unauthorized front-panel tampering.</td>
</tr>
<tr>
<td>S4A</td>
<td>Install with S1 jumper (on the DC-power board) to program the excitation output. Adjust excitation with R34 surface mount pot from 1.25 to 12 volts, with an output current up to 120 mA. Remove the S4A jumper for excitation voltage at 24 volts with an output current up to 35 mA.</td>
</tr>
<tr>
<td>S5A</td>
<td>Install to enable the RESET front-panel button. Remove to secure against unauthorized meter reset.</td>
</tr>
</tbody>
</table>

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  - Sensor Excitation.................................................1
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SAFETY CONSIDERATIONS

This device is marked with the international Caution symbol. It is important to read this manual before installing or commissioning this device as it contains important information relating to Safety and EMC (Electromagnetic Compatibility).

Unpacking & Inspection

Unpack the instrument and inspect for obvious shipping damage. Do not attempt to operate the unit if damage is found.

This instrument is a panel mount device protected in accordance with Class I of EN 61010 (115/230 AC power connections). Installation of this instrument should be done by Qualified personnel. In order to ensure safe operation, the following instructions should be followed.

This instrument has no power-on switch. An external switch or circuit-breaker shall be included in the building installation as a disconnecting device. It shall be marked to indicate this function, and it shall be in close proximity to the equipment within easy reach of the operator. The switch or circuit-breaker shall not interrupt the Protective Conductor (Earth wire), and it shall meet the relevant requirements of IEC 947-1 and IEC 947-3 (International Electrotechnical Commission). The switch shall not be incorporated in the mains supply cord.

Furthermore, to provide protection against excessive energy being drawn from the mains supply in case of a fault in the equipment, an overcurrent protection device shall be installed.

- The Protective Conductor must be connected for safety reasons. Check that the power cable has the proper Earth wire, and it is properly connected. It is not safe to operate this unit without the Protective Conductor Terminal connected.

- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.
- Unit mounting should allow for adequate ventilation to ensure instrument does not exceed operating temperature rating.
- Use electrical wires with adequate size to handle mechanical strain and power requirements. Install without exposing bare wire outside the connector to minimize electrical shock hazards.

EMC Considerations

- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wires close to the instrument if EMC problems persist.

Figure 1. DC-Powered Main Board
PROGRAMMING

Read the AC-powered meter documentation (Owner's Guide or Quick Start Guide) to understand how to program the DC-powered meter. All programming features are identical to the AC-powered meter.

INPUT SIGNAL BOARD JUMPERS

To access the appropriate jumper for the signal input board, read the following sections in the Owner Guides:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Process</th>
<th>Strain</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

MAIN BOARD JUMPERS:

The instructions in this addendum provide you with new or different jumper locations from standard AC-powered meters. Table 3 details the jumpers illustrated in Figure 1 on the following page.

SPECIFICATIONS

The specifications for DC-powered meters are identical to AC-powered meters, except for the following:

I. Power
   DC voltage: From 10 to 32Vdc
   Consumption: 3 to 9 watts maximum
   Power Supply Rejection: 0.001% of span/volt

II. Sensor Excitation
    35 mA at 24Vdc, or 120 mA at 10Vdc. Can power up to 4 load cells.

III. Isolation
     5-Way Isolation – Power, signal input, analog output, communication and BCD output = 354 V Peak.

IV. Accuracy at 25 °C for Process and Strain meters
    A. Maximum error with digital filter time = 64:
       ±0.005% of readings (same as an AC-powered unit).
    B. Maximum error with digital filter time = 16:
       ±0.005% of reading ±4 µV
    C. Maximum error with no digital filtering:
       ±0.005% of reading ±10 µV
V. Accuracy at 25° for Temperature meter

Maximum error with no digital filtering:

**Table 1. Thermocouple Input**

<table>
<thead>
<tr>
<th>TC Type</th>
<th>Celsius</th>
<th>Fahrenheit</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>-210 to 760 ±0.3</td>
<td>-346 to 1400 ±0.5</td>
</tr>
<tr>
<td>K</td>
<td>-270 to 1372 ±0.3</td>
<td>-454 to 2500 ±0.5</td>
</tr>
<tr>
<td>E</td>
<td>-270 to 1000 ±0.3</td>
<td>-454 to 1832 ±0.5</td>
</tr>
<tr>
<td>T</td>
<td>-270 to 400 ±0.3</td>
<td>-454 to 752 ±0.5</td>
</tr>
<tr>
<td>N</td>
<td>-270 to 1300 ±0.3</td>
<td>-454 to 2372 ±0.5</td>
</tr>
<tr>
<td>R</td>
<td>-50 to 1768 ±0.3</td>
<td>-58 to 3214 ±0.5</td>
</tr>
<tr>
<td>S</td>
<td>-50 to 1768 ±0.3</td>
<td>-58 to 3214 ±0.5</td>
</tr>
<tr>
<td>B</td>
<td>+100 to 1820 ±0.4</td>
<td>+212 to 3300 ±0.7</td>
</tr>
<tr>
<td>DIN J</td>
<td>-200 to 900 ±0.8</td>
<td>-328 to 1652 ±1.4</td>
</tr>
</tbody>
</table>

**OPTION BOARDS**

DC-powered and AC-powered meters both run under the same software. The DC-powered meter has a vertical power input board that extends from the back of the meter to the LED display.

DC-powered meters are compatible with all versions of BCD, dual relay and RS-485 option cards. The older versions of RS-232 and analog output cards are not compatible with DC-powered meters. If you have an old card, check the connector before installing.

![CAUTION: When connecting an analog output option board to the meter, ensure the board has a 10-position connector. When connecting an RS-232 option board to the meter, ensure the board has a 12-position connector. Connecting an incompatible board to the meter may result in damage to the meter, the board, or both.](image)

**Analog Output Option Board Installation:** all compatible boards have a 10 position connector. Inspect the mating connector to ensure it has 10 positions.

**RS-232 Option Board Installation:** all compatible boards have a 12 position connector. Inspect the mating connector to ensure it has 12 positions.

All versions of BCD and dual relay boards are compatible with DC-powered meters.
V. Accuracy at 25° for Temperature meter

Maximum error with no digital filtering:

### Table 1. Thermocouple Input

<table>
<thead>
<tr>
<th>TC Type</th>
<th>Celsius</th>
<th>Fahrenheit</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>-210 to 760 ±0.3</td>
<td>-346 to 1400 ±0.5</td>
</tr>
<tr>
<td>K</td>
<td>-270 to 1372 ±0.3</td>
<td>-454 to 2500 ±0.5</td>
</tr>
<tr>
<td>E</td>
<td>-270 to 1000 ±0.3</td>
<td>-454 to 1832 ±0.5</td>
</tr>
<tr>
<td>T</td>
<td>-270 to 400 ±0.3</td>
<td>-454 to 752 ±0.5</td>
</tr>
<tr>
<td>N</td>
<td>-270 to 1300 ±0.3</td>
<td>-454 to 2372 ±0.5</td>
</tr>
<tr>
<td>R</td>
<td>-50 to 1768 ±0.3</td>
<td>-58 to 3214 ±0.5</td>
</tr>
<tr>
<td>S</td>
<td>-50 to 1768 ±0.3</td>
<td>-58 to 3214 ±0.5</td>
</tr>
<tr>
<td>B</td>
<td>+100 to 1820 ±0.4</td>
<td>+212 to 3300 ±0.7</td>
</tr>
<tr>
<td>DIN J</td>
<td>-200 to 900 ±0.8</td>
<td>-328 to 1652 ±1.4</td>
</tr>
</tbody>
</table>

### Table 2. RTD Input

<table>
<thead>
<tr>
<th>RTD Type</th>
<th>Celsius</th>
<th>Fahrenheit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pt100/NIST</td>
<td>-200 to 850 ±0.4</td>
<td>-328 to 1562 ±0.7</td>
</tr>
<tr>
<td>Pt100/DIN</td>
<td>-200 to 900 ±0.4</td>
<td>-328 to 1652 ±0.7</td>
</tr>
<tr>
<td>Cu10 (Linear)</td>
<td>-200 to 900 ±1.2</td>
<td>-328 to 392 ±2.1</td>
</tr>
</tbody>
</table>

### OPTION BOARDS

DC-powered and AC-powered meters both run under the same software. The DC-powered meter has a vertical power input board that extends from the back of the meter to the LED display.

DC-powered meters are compatible with all versions of BCD, dual relay and RS-485 option cards. The older versions of RS-232 and analog output cards are not compatible with DC-powered meters. If you have an old card, check the connector before installing.

**CAUTION:** When connecting an analog output option board to the meter, ensure the board has a 10-position connector. When connecting an RS-232 option board to the meter, ensure the board has a 12-position connector. Connecting an incompatible board to the meter may result in damage to the meter, the board, or both.

**Analog Output Option Board Installation:** all compatible boards have a 10 position connector. Inspect the mating connector to ensure it has 10 positions.

**RS-232 Option Board Installation:** all compatible boards have a 12 position connector. Inspect the mating connector to ensure it has 12 positions.

All versions of BCD and dual relay boards are compatible with DC-powered meters.
PROGRAMMING

Read the AC-powered meter documentation (Owner's Guide or Quick Start Guide) to understand how to program the DC-powered meter. All programming features are identical to the AC-powered meter.

INPUT SIGNAL BOARD JUMPERS

To access the appropriate jumper for the signal input board, read the following sections in the Owner Guides:

Temperature Section 3
Process Section 6
Strain Section 6

MAIN BOARD JUMPERS:

The instructions in this addendum provide you with new or different jumper locations from standard AC-powered meters. Table 3 details the jumpers illustrated in Figure 1 on the following page.

SPECIFICATIONS

The specifications for DC-powered meters are identical to AC-powered meters, except for the following:

I. Power
   DC voltage: From 10 to 32Vdc
   Consumption: 3 to 9 watts maximum
   Power Supply Rejection: 0.001% of span/volt

II. Sensor Excitation
   35 mA at 24Vdc, or 120 mA at 10Vdc. Can power up to 4 load cells.

III. Isolation
   5-Way Isolation – Power, signal input, analog output, communication and BCD output = 354 V Peak.

IV. Accuracy at 25 °C for Process and Strain meters
   A. Maximum error with digital filter time = 64:
      ±0.005% of readings (same as an AC-powered unit).
   B. Maximum error with digital filter time = 16:
      ±0.005% of reading ±4 µV
   C. Maximum error with no digital filtering:
      ±0.005% of reading ±10 µV
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Unpacking & Inspection

Unpack the instrument and inspect for obvious shipping damage. Do not attempt to operate the unit if damage is found.

This instrument is a panel mount device protected in accordance with Class I of EN 61010 (115/230 AC power connections). Installation of this instrument should be done by Qualified personnel. In order to ensure safe operation, the following instructions should be followed.

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Furthermore, to provide protection against excessive energy being drawn from the mains supply in case of a fault in the equipment, an overcurrent protection device shall be installed.

- The Protective Conductor must be connected for safety reasons. Check that the power cable has the proper Earth wire, and it is properly connected. It is not safe to operate this unit without the Protective Conductor Terminal connected.

- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.
- Unit mounting should allow for adequate ventilation to ensure instrument does not exceed operating temperature rating.
- Use electrical wires with adequate size to handle mechanical strain and power requirements. Install without exposing bare wire outside the connector to minimize electrical shock hazards.

EMC Considerations

- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wires close to the instrument if EMC problems persist.
### Table 3. DC-Powered Meter Jumper Locations

<table>
<thead>
<tr>
<th>Jumper Location</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3A</td>
<td>Install to store data and set up parameters in nonvolatile memory.</td>
</tr>
<tr>
<td>S3B</td>
<td>Do not install. When installed you may change calibration data via digital communication.</td>
</tr>
<tr>
<td>S3C</td>
<td>Install to disable lock-out menu. Remove to enable lock-out features. Install to stop unauthorized tampering with lockout features.</td>
</tr>
<tr>
<td>S3D</td>
<td>Install to enable all pushbutton front-panel programming. Remove to secure against unauthorized front-panel tampering.</td>
</tr>
<tr>
<td>S4A</td>
<td>Install with S1 jumper (on the DC-power board) to program the excitation output. Adjust excitation with R34 surface mount pot from 1.25 to 12 volts, with an output current up to 120 mA. Remove the S4A jumper for excitation voltage at 24 volts with an output current up to 35 mA.</td>
</tr>
<tr>
<td>S5A</td>
<td>Install to enable the RESET front-panel button. Remove to secure against unauthorized meter reset.</td>
</tr>
</tbody>
</table>

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<td>1</td>
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<tr>
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<td>8</td>
</tr>
</tbody>
</table>
Figure 2. DC-Power Board with Jumper Locations

Table 4. DC-Power Board Jumper Locations

<table>
<thead>
<tr>
<th>Jumper Location</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1A</td>
<td>Install for 1.25 to 12 volt excitation at 120mA.</td>
</tr>
<tr>
<td>S1B</td>
<td>Install for 24Vdc volt excitation at 35mA.</td>
</tr>
</tbody>
</table>

Figure 3. DC-Power Connections
### DEFAULT JUMPER SETTINGS

**Table 5. Main Board Default Jumper Locations**

<table>
<thead>
<tr>
<th>Jumper Location(s)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3</td>
<td>&quot;A, C, D&quot; - installed on all models (Universal, Temperature, Strain and Process).</td>
</tr>
<tr>
<td>S5</td>
<td>&quot;A&quot; installed on all models, RESET ENABLE.</td>
</tr>
</tbody>
</table>

### DC-Power Default Jumper Locations

**Table 6.**

<table>
<thead>
<tr>
<th>Jumper Location(s)</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>&quot;A&quot; - installed on Universal, Process and Strain meters. 10 volt excitation. &quot;B&quot; - installed for Temperature meter. 24 volt excitation.</td>
</tr>
</tbody>
</table>

**Note:** When you change the excitation output from 10 to 24 volts, or vice versa, you must change the S4 jumper on the main board and the S1 jumper on the DC powered board.

---

**Addendum to the Manuals --**

- 11210ML-02 (M1251) - Temperature
- 11279ML-01 (M1291) - Strain
- 1097ML-02 (M1260) - Process

**For immediate technical or application assistance:**

**1-800-634-7675**

**Newport INFINITY**

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  - Tel: (514) 335-3183
  - Fax: (514) 855-6086
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  - Fax: (31) 20 6434643
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  - Fax: 33 (1) 30 69 91 20
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  - Tel: 49 (37056) 3017
  - Fax: 49 (37056) 8540
  - Toll Free: 0150 11 21 21 • e-mail: info@newportde
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  - One Omega Drive • River Bend Technology Centre
  - Northbank, Inlan, • Manchester, M44 5EX, England
  - Tel: 44 (161) 777-6611 • Fax: 44 (161) 777-6622
  - Toll Free: 0800-489-488 • e-mail: info@newportinc.co.uk

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This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device as it contains important information relating to safety and EMC.

It is our policy to comply with all worldwide safety and EMC regulations that apply. We are constantly pursuing certification of its products to the European New Approach Directives. We will add the CE mark to every appropriate device upon certification.

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