

Step 11. Enter to the Thermocouple Type Input Submenu
Press **⏏** to display flashing, previously selected Thermocouple type.

Step 12. Scroll through available selection of TC types
Press **⏏** to sequence thru flashing Thermocouple types, (select k -for type "K" CHROMEGA®/ALOMEGA®)

J K T E N DIN J R S B C - TC types
J k t E N dN J R S b C - Display

Step 13. Store TC type
After you have selected the Thermocouple type press **⏏** to store your selection, the instrument automatically advances to the next menu item.

Step 14. Enter to Reading Configuration Menu
The display shows **R.D.O** Reading Configuration, which is the top menu for 4 submenus: Decimal Point, Degree Units, Filter Constant and Input/Reading Submenus.

Step 15. Enter to Decimal Point Submenu
Press **⏏** to show **d.E.E** Decimal Point.

Step 16. Display the Decimal Point position
Press **⏏** again to display the flashing Decimal Point position.

Step 17. Select the Decimal Point position
Press **⏏** to select **F.F.F.F** Decimal Point position.

Step 18. Store selected Decimal Point position
By pressing **⏏** momentarily the Decimal Point position will be stored and the instrument will go to the next menu item.

Step 19. Enter to Temperature Unit Submenu
Display shows **E.E.M.P** Temperature Unit.

Step 20. Display available Temperature Units
Press **⏏** to display the flashing Degree **F** or **C**.

Step 21. Scroll through Temperature Units selection
Press **⏏** to select **F** Degree.

Step 22. Store the Temperature Unit
Press **⏏** to display momentarily that the Degree Unit has been stored and the instrument will go automatically to the next menu item.

Step 23. Enter the Filter Constant Submenu
Display shows **F.L.L.R** Filter Constant Submenu.

Step 24. Display the Filter Constant Value Submenu
Press **⏏** to display the flashing, previously selected Filter Constant.

Step 25. Scroll through available Filter Constants
Press **⏏** to sequence thru Filter Constants **0001**, **0002**, **0004**, **0008**, **0016**, **0032**, **0064** and **0128**.

Step 26. Store the Filter Constant
Press **⏏** momentarily to store **0004** Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter Alarm 1 Menu
The display will show **ALR** the top menu for Alarm 1. In the following steps we are going to enable Alarm 1, Deviation, Unlatch, Normally Open, Active Above, Enable at power on and +2°F High Alarm i.e. Process Value > Setpoint 1 Value +2°F will activate Alarm 1.

Step 28. Enter Alarm 1 Enable/Disable Submenu
Press **⏏** to display flashing **d5bL** / **ENbL**.

Step 29. Enable Alarm 1 Submenu
If flashing **ENbL** is displayed, press **⏏**, if **d5bL** is displayed, press **⏏** until **ENbL** is displayed, then press **⏏** to store and go to the next menu item.

Step 30. Select the Deviation Control Type Submenu
Press **⏏**. If flashing **d.E.N** Deviation is displayed press **⏏**, otherwise press **⏏** until flashing **d.E.N** is shown. Now press **⏏** to store and go to next menu item.

Step 31. Select the Latched Type Submenu
Press **⏏**. If flashing **UNLbE** Unlatched is displayed press **⏏**, otherwise press **⏏** until **UNLbE** is displayed. Press **⏏** to store and advance to next menu item.

Step 32. Select the Normally Open Type of Contact Closure Submenu
Press **⏏**. If flashing **N.o.** Normally Open is displayed, press **⏏**, otherwise press **⏏** until **N.o.** is displayed. Press **⏏** to store and advance to next menu item.

Step 33. Select the Above Type of Active Submenu
Press **⏏**. If flashing **Ab.o.N** Above is displayed, press **⏏**, otherwise press **⏏** until **Ab.o.N** is displayed. Press **⏏** to store and advance to next menu item.

Step 34. Enable Alarm 1 at Power On (A.P.o.N)
Press **⏏**. If flashing **ENbL** is displayed, press **⏏**, otherwise press **⏏** until **ENbL** is displayed. Press **⏏** to store and advance to next menu item.

Step 35. Enter Alarm 1 High Submenu
Press **⏏** twice to skip **ALR.L** Alarm 1 Low value. **ALR.L** is for below & **ALR.H** for above.

Step 36. Set the Alarm 1 High value (ALR.H)
Press **⏏**. Press **⏏** or **⏏** until value to set the display to **002.0**. Press **⏏** to save.

Step 37. Enter the Alarm 2 Menu
The display will show **ALR2** the top menu for Alarm 2. Repeat steps from 28 to 36 to set for Alarm 2 the same conditions as for Alarm 1.

Step 38. Configuration of Display Color Selection
Press **⏏** until the **COLR** Display Color Selection Menu appears on the Display. Configure **COLR** as **N.CLR** / **GRN** (green), **I.CLR** / **RED** (red), **P.CLR** / **AMBR** (amber). Please refer to the operator's manual if needed.

Step 39. Run a Test
Press **⏏** until reset the controller and return to **RUN** Mode to display **075.0** (Ambient Temperature). Now you are ready to observe temperature as it rises 10°F higher than displayed. Touch the tip of the Thermocouple to raise the temperature above the Alarm 2 High value **082.0**, and **AL2** will turn on, and Display Color will change from Green to Amber. Continue touching the tip to raise the temperature above the Alarm 1 High value **087.0** and Display Color will change from Amber to Red.

SPECIFICATION

Accuracy:
±0.5°C temp;
0.03% rdg. process typical
Resolution:
1°/0.1°; 10 µV process
Temperature Stability:
0.04°C/°C RTD;
0.05°C/°C TC @ 25°C (77°F);
50 ppm/°C process

Display:
4-digits, 9-segments LED,
21 mm (0.83") with red, green and
amber programmable colors
Input Types:
Thermocouple, RTD, Analog Voltage
and Current

TC: (ITS 90)
J, K, T, E, R, S, B, C, N, L
RTD: (ITS 68)
100/500/1000 ohm Pt sensor
2-, 3-, or 4-wire; 0.00385 or 0.00392
curve
Voltage:
0 to 100 mV, 0 to 1 V, 0 to 10 Vdc
Current:
0 to 20 mA (4 to 20 mA)

Output 1':
Relay 250 Vac @ 3 A Resistive Load,
SSR, Pulse
Output 2':
Relay 250 Vac @ 3 A Resistive Load,
SSR, Pulse
[†] Only with -AL option

Options: Communication
RS-232 / RS-485 or 10BaseT
or Excitation: 24 Vdc @ 25 mA
EXC. not available for Low Power Option

Line Voltage/Power:
90 - 240 Vac ±10%, 50 - 400 Hz*,
or 110-375 Vdc, **4W** for Single Display;
5W for Dual Display
^{*} No CE compliance above 60 Hz
Low Voltage Power Option:
12 - 36 Vdc, **3 W**** for Single Display;
20 - 36 Vdc, **4 W**** for Dual Display
^{**} Units can be powered safely with 24 Vac
^{but No Certification for CE/UL are claimed.}

Dimensions:
48 H x 96 W x 127 D mm
(1.89 x 3.78 x 5")

Weight:
295 g (0.65 lb)

Approvals:
FM, UL, C-UL, CE per EN 61010-1:2001

WARNING: These products are not designed for use in, and should not be used for, patient-connected applications.

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

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

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If the unit malfunctions, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT, if the unit is found to be defective, it will be repaired or replaced at no charge. NEWPORT'S WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of NEWPORT's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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Direct all warranty and repair requests/inquiries to the NEWPORT Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO NEWPORT, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM NEWPORT'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please consult NEWPORT for current repair BEFORE contacting NEWPORT:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR NON-WARRANTY REPAIRS, have the following information available BEFORE contacting NEWPORT:


1. Purchase Order number to cover the COST the repair,
2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.

NEWPORT's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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iSeries

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