

An economically smart temperature meter relay for J, K, R, and T type thermocouples and RTD inputs.

General Features

- Thermocouple (J, K, R and T types) or RTD (Pt-100. 385 and 392 curves. 3 wire/4wire). Digitally Linearized.
- Optional isolated 16 bit analog output. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired digital span from ± one count to the full scale range of – 1999 to 9999 (12000 counts).
- Auto-sensing AC/DC power supply. For voltages between
 85-265 V AC / 95-370 V DC (PS1) or 15-48 V AC / 10-72 V DC (PS2).
- Standard red or optional green or super bright red 4-digit LED
- Red or green 0.8" LED large display option.
- Four annunciator LEDs provide front panel alarm status indication for up to four setpoints.
- Two 10 Amp Form C and two 5 Amp Form A relay, or optionally four 5 Amp Form A relays are available.

Software Features

- Three-button programming from the front panel (UP, DOWN and PROGRAM buttons).
- Three front panel selectable ranges.
- Front panel selectable four-level brightness control of digital display, and setpoint LEDs.
- Four programmable setpoints.
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint.
- Hysteresis setting for all four setpoints. Delay on make and delay on break for SP1 and SP2.
- Peak and Valley. View and Reset.

Input Module Compatibility

There are 2 different Plug-in Modular Input Signal Conditioners for this specialized temperature only member of the Leopard Family. IT10 is for J, K, T and R thermocouples. IT11 is for 3 wire/4 wire Pt-100 RTD inputs.



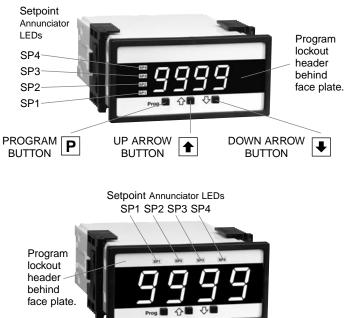
Specifications

Input Specs:	Depends on Input signal conditioner
A/D Converter:	
	\pm (0.05% of reading + 2 counts)
-	100 ppm/°C (Typical)
Warm up time:	
•	5 conversions per second (Typical)
	4 digit 0.56" Red LED display (std),
	0.56" or 0.8" Red, Green or Super
	Bright Red (optn).
	Range –1999 to 9999 counts.
Polarity [.]	Assumed positive. Displays – negative
	Automatic by resolution select XXX•X
	Top segments of digital display flash
-	: Bottom segments of digital display flash
-	Two 5 Amp Form A relays and two 10
	Amp Form C, or 5 Amp form A relays.
Analog Output [.]	Isolated 16 bit user scalable mA or V
	4-20 mA @ 0 to 500Ω max loop resistance
· · · ·	0-10 V DC @ 500 Ω or higher resistance
. ,	AC/DC Auto sensing wide range supply
	85-265 VAC / 95-370 VDC @ 2.5W max 3.5W
	15-48 VAC / 10-72 VDC @ 2.5W max 3.5W
Operating Temp.:	
Storage Temp:	
	95% (non condensing)
Case Dimensions:	11/8 DIN, Bezel: 96x48 mm
	(3.78"x1.89")
	Depth behind bezel: 117 mm (4.61")
	Plus 11.8 mm (0.47") for Right-angled
	connectors, or plus 20 mm (0.79") for
	Straight-thru connector.
Weight:	6.5 oz., 8.5 oz when packed

Brightness Selection5	Digital Span Selection for	Lens Cover OP-N4X/96X4811	Specifications1
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Controls and Indicators



m Program Button

Front Panel Buttons

The \square button is used to move from one program step to the next. When pressed at the same time as the $\textcircled{\bullet}$ button, it initiates the **calibration mode**. When pressed at the same time as the $\textcircled{\bullet}$ button, it initiates the **setpoint setting mode**.

Up Button

When in the operational display, pressing the 1 button alone allows you to view, but not change, the setting of **setpoint 1**.

When in the **calibration mode** or the **setpoint setting mode** the the button is used to increase the value of the displayed parameter.

Down Button

When in the operational display, pressing the 🕑 button alone allows you to view, but not change, the setting of **setpoint 2**.

When in the **calibration mode** or the **setpoint setting mode** the button is used to decrease the value of the displayed parameter.

Glossary of Programming Symbols

To explain software programming procedures, logic diagrams are used to visually assist in following the programming steps. The following symbols are used throughout the logic diagrams to represent the buttons and indicators on the meter:

Symbol

Explanation



This symbol represents the OPERATIONAL DISPLAY.



This is the PROGRAM button.



This is the UP button.

This is the DOWN button.



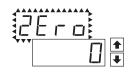
When a button is shown, press and release it to go onto the next step in the direction indicated by the arrow. When two or more buttons are shown, each with an arrow, this indicates that there is a number of programming choices.



When two buttons are shown side by side and enclosed by a dotted line, they must be pressed at the same time then released to go onto the next programming step.



If the display is shown with XXXX it means the value displayed will be the previously set value. When a number is shown it indicates the initial factory default setting or a specific "example number".



When two displays are shown together with bursts, this indicates that the display is toggling (flashing) between the name of the function and the value.

[Span] [10000] Text or numbers shown between square brackets in a procedure indicate the programming code name of the function or the value displayed on the meter display.

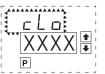


When the
 and
 buttons are shown together, the display value can be increased by pressing and releasing the
 button or decreased by pressing and releasing the
 button.



When the and buttons are shown with two displays, either display can be selected by pressing and releasing the or ● buttons.





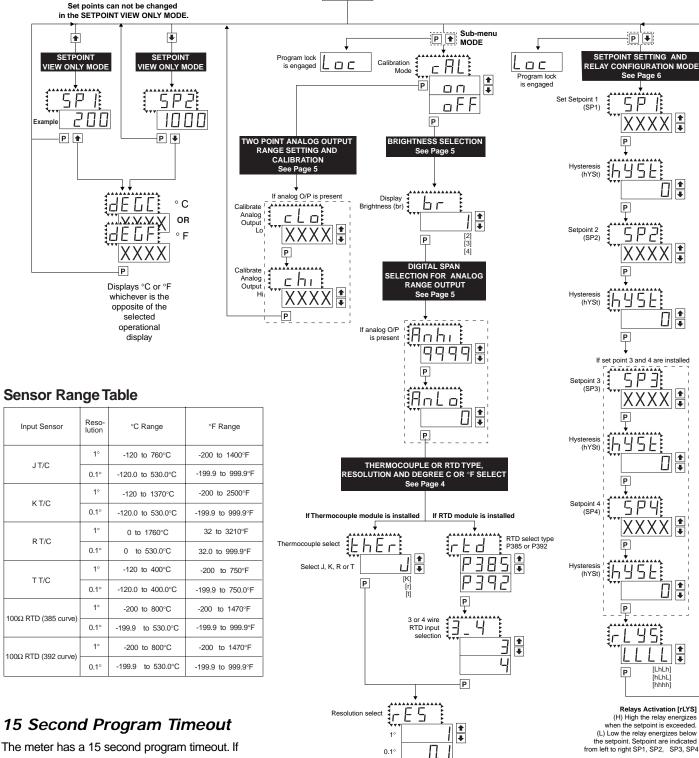
When there are more than two display selections they are shown in brackets below the first display and are also selectable by pressing and releasing the • or • buttons.

A dotted box indicates these functions are omitted or bypassed when the related hardware is not present

Software Logic Tree

The DL-40H is an intelligent meter with a hierarchical software structure designed for easy programming and operation, as shown below in the software logic tree.

After the meter has been powered up, the four digits light up for three seconds and then settle to the operational display indicating the input signal.



MAIN MENU

Operational Display

8888

The meter has a 15 second program timeout. If no buttons are pressed for 15 seconds, at any stage of the programming sequence the meter will exit the programming mode and return to the operational display. Any program changes that were made prior to pressing the P button in the preceding step will not be saved.

Degree select

Ρ

E L

Ρ

°C

۰F

↑ ▼

F

Thermocouple or RTD Sensor Type Selection

- STEP AEnter the Sensor Type Selection Mode Through the Sub Menu [cAL] [oFF]1)Press the ℙ and buttons at the same time.
 - Display toggles between [cAL] and [oFF].
 - Press the D button. Display toggles between [Br] and the previous [Br] setting.

STEP B Sensor Type Selection

- 1) Using the
 and
 buttons, adjust the display to the desired sensor type.
- 2) Press the P button. Display toggles between [rES] resolution select and previous [rES] setting.

STEP C Set the Resolution

- Using the

 and
 buttons, adjust the display to the desired resolution [rES] value.
- Press the P button. Display toggles between [dEG] and previous [dEG] selection.

STEP D Selection of Degree C or Degree F

- 1) Using the te and te buttons, adjust the display to either °C or °F.
- Press the D button. The meter exits the sensor type selection mode and returns to the operational display.

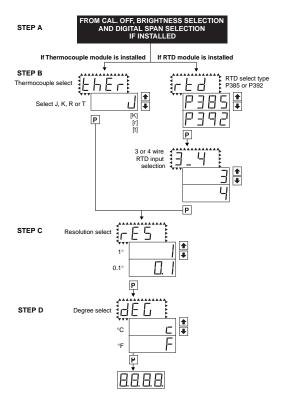
Calibration Procedure

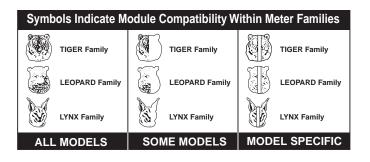
IT10 Thermocouple Input Signal Conditioner installed.

- 1. Unplug the connector plugs from the meter. Remove the case back panel and slide the PCB out of the case.
- Select the appropriate header jumper position depending on which thermocouple is to be used. Thermocouple types J, K, R and T are supported. This sets up the correct cold junction compensation.
- 3. Insert the PCB back into the case. Snap the back panel back into the case. Apply power to the meter.
- 4. Enter the program mode and select the type of thermocouple (J, K, R, T), the resolution (0.1° or 1°) and the display units ·°C or °F). See the Software Logic Tree on Page 3 of the data sheet for details.
- Connect a thermocouple simulator to the meter inputs. Apply an input corresponding to 0° and adjust the ZERO Potentiometer to make the display read 0.
- 6. Apply an input corresponding to the maximum reading of the thermocouple and adjust the SPAN Potentiometer to make the display read correctly.
- The DL-40H is now calibrated and ready for use. Calibration will have to be performed again if the thermocouple type is changed.

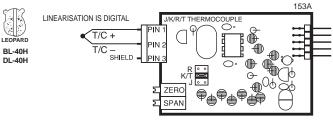
IT11 RTD Input Signal Conditioner installed.

- Enter the program mode and select the type of RTD (385 or 392 curve and 3-wire/ 4-wire), the resolution (0.1° or 1°) and the display units ·°C or °F). See the Software Logic Tree on page 3 of the data sheet for details.
- Connect an RTD simulator to the meter inputs. Apply an input corresponding to 0° and adjust the ZERO Potentiometer to make the display read 0.
- 3. Introduce a lead resistance of 10Ω in each lead. Adjust the Lead Resistance Compensation potentiometer to make the display again reads 0.
- The DL-40H is now calibrated and ready for use. Calibration will have to be performed again if the RTD type is changed.

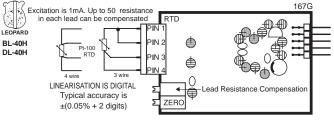




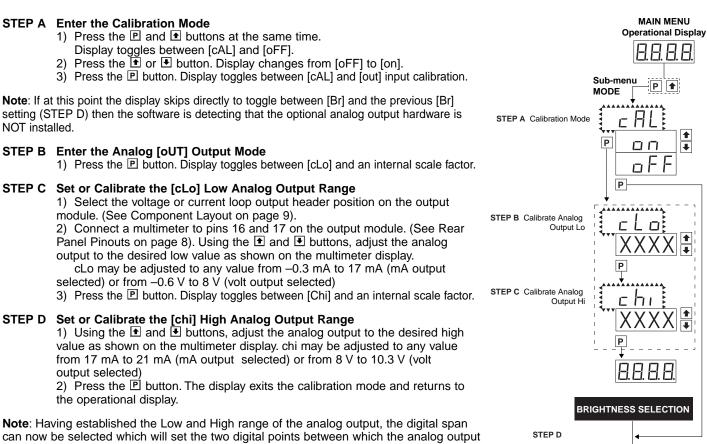
IT10: Thermocouple, J/K/R/T, Selectable °C/°F, 1°/0.1°



IT11: RTD, 100 Pt. Select 3/4-wire, °C/°F, 1°/0.1° IT15: RTD, 1000 Pt. Select 3/4-wire, °C/°F, 1°/0.1°



Two Point Analog Output Range Setting and Calibration



will occur. (See Digital Span Selection below).

Brightness Selection

STEP D Enter the Brightness Mode Through the Sub Menu [cAL] [oFF]

- 1) Press the P and the buttons at the same time.
 - Display toggles between [cAL] and [oFF].
- 2) Press the P button. Display toggles between [Br] and the previous [Br] setting.

STEP E Set the Display Brightness

- 1) Using the imes and imes buttons, adjust the display to the desired brightness setting (4 is the brightest setting).
- 2) Press the P button. Display brightness changes to new setting and display toggles between [Anhi] and the previous [Anhi] setting.

Digital Span Selection for Analog Range Output

STEP F Setting the Digital Span Point for Analog High Output

- 1) Using the and buttons, adjust the display to the desired digital value which sets the point at which the selected analog high output range will occur.
- 2) Press the P button. Display toggles between [AnLo] and previous [AnLo] setting.

STEP G Setting the Digital Span Point for Analog Low Output

- 1) Using the and buttons, adjust the display to the desired digital value which sets the point at which the selected analog low output range will occur.
- 2) Press the D button. The display exits the calibration mode and returns to the operational display.

Note: Any two digital scale points from –1999 to 9999 can be selected. The digital scale points for analog high and analog low can be reversed for reversed 20-4 mA output. The span of the digital scale can be as small as two counts however small spans cause the 16 bit D to A to increment in stair case steps.

[2] [3] [4] Ρ DIGITAL SPAN SELECTION FOR ANALOG RANGE OUTPUT STEP F Analog ก่า High (Anhi) STEP G Analog Low (AnLo) Ρ HERMOCOUPLE OR RTD TYPE **RESOLUTION AND DEGREE** C OR °F SELECTION SEE PAGE 4 8888

ΠI

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STEP E Display

Brightness (br)

Setpoint Setting and Relay Configuration Mode

The following programming steps are required to enter the setpoint values and configure the relay functions in a meter with four relays using four setpoints. Generally if less than four relays are installed the software auto detects missing relays and deletes reference to them from the menu. In some cases setpoints without relays are operational for display only purposes.

STEP A Enter the Setpoint Mode

- 1) Press the \mathbb{P} and buttons at the same time.
- Display toggles between [SP1] and the previous [SP1] setting.

STEP B Set Setpoint 1 (SP1)

- 1) Using the 1 and 1 buttons, adjust the display to the desired SP1 value.
- 2) Press the D button. Display toggles between [hYSt] and the previous [hYSt] setting.

STEP C Set the Hysteresis Setting for Setpoint 1

- 1) Using the 1 and 1 buttons, adjust the display to the desired hysteresis [hYSt] value.

STEP D Set Setpoint 2 (SP2)

- 1) Using the 1 and 1 buttons, adjust the display to the desired SP2 value.
- 2) Press the P button. Display toggles between [hYSt] and the previous [hYSt] setting.

STEP E Set the Hysteresis Setting for Setpoint 2

- 1) Using the 🖸 and 🕑 buttons, adjust the display to the desired hysteresis [hYSt] value.
- 2) Press the P button. Display toggles between [SP3] and the previous [SP3] setting.

STEP F Set Setpoint 3 (SP3)

- 1) Using the 1 and 1 buttons, adjust the display to the desired SP3 value.
- 2) Press the P button. Display toggles between [hYSt] and the previous [hYSt] setting.

STEP G Set the Hysteresis Setting for Setpoint 3

- 1) Using the 🗈 and 🗷 buttons, adjust the display to the desired hysteresis [hYSt] value.
- 2) Press the P button. Display toggles between [SP4] and the previous [SP4] setting.

STEP H Set Setpoint 4 (SP4)

- 1) Using the \bullet and \bullet buttons, adjust the display to the desired SP4 value.
- 2) Press the P button. Display toggles between [hYSt] and the previous [hYSt] setting.

STEP I Set the Hysteresis Setting for Setpoint 4

- Using the and buttons, adjust the display to the desired hysteresis [hYSt] value.
- 2) Press the P button. Display toggles between [rLYS] and the previous relay setting.

STEP J Set Relay Activation mode [rLYS]

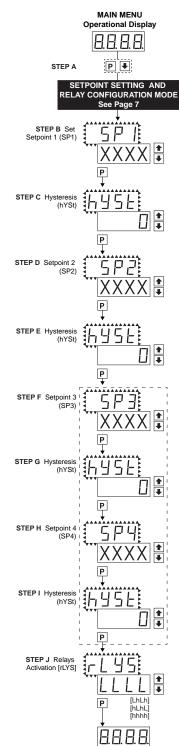
(h) High the relay energizes when the setpoint is exceeded. (L) Low the relay energizes below the setpoint. The setpoint is indicated from left to right SP1, SP2, SP3, SP4.

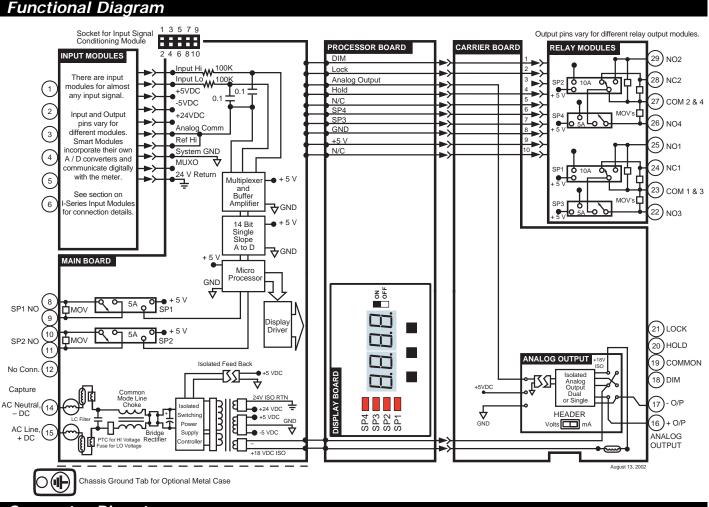
 Using the and buttons, adjust the reading on the display to the desired relay settings: [LLLL], [LhLh], [LLhh], [hhhh].
 If only 2 relays installed [Lh] [hL] [hh] [LL].

2) Press the P button.

The meter exits the setpoint mode and returns to the operational display.

The Setpoint Relay programming mode is now complete.





Connector Pinouts

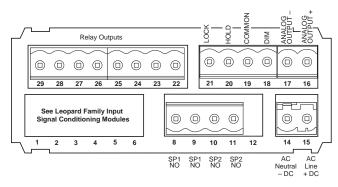
Pinout Diagram

The Rear View of the Meter diagram shows the meter with the relay configuration: dual 10 Amp Form C and dual 5 Amp Form A relays. An analog output module is also shown as installed.

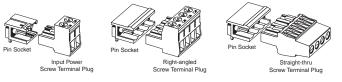
The DL-40H uses plug-in type screw terminal connectors for all input and output connections. The power supply connections (pins 14 and 15) have a unique plug and socket outline to prevent cross connection. The main board and input signal conditioner use rightangled connectors as standard. The output module uses straightthru connectors as standard.



WARNING: AC and DC input signals and power supply voltages can be hazardous. Do Not connect live wires to screw terminal plugs, and do not insert, remove or handle screw terminal plugs with live wires connected.



Auto-sensing AC/DC power supply. For voltages between 85-265 V AC / 95-370 V DC (PS1) or 18-48 V AC / 10-72 V DC (PS2). Standard plug-in screw terminal connectors provided by Texmate:



Input Signal – Pins 1 to 6

Pins 1 to 6 are reserved for the input signal conditioner. See the data sheet for the selected input signal conditioner.

Pins 8 to 12 – Relay Output Pins

Note: If relays for setpoints 1 & 2 are installed on the main board, and a relay output module is used that also has relays in the setpoints 1 & 2 positions, the duplicate relays will operate in unison.

- Pin 8
- SP1 NO. SP1 NO. Normally Open 5 Amp Form A. Pin 9
- Pin 10
- SP2 NO. SP2 NO. Normally Open 5 Amp Form A. Pin 11
- Pin 12 NO CONNECTION.

Pins 14 and 15 – AC/DC Power Input Auto-sensing AC/DC power supply. For voltages between

85-265 V AC/95-370 V DC (PS1) or 18-48 V AC/10-72 V DC (PS2). Pin 14 AC/DC Neutral. Neutral power supply line. Pin 15 AC/DC line. Live power supply line.

Optional Carrier Board Output Pins Pins 16 and 17 – Analog Output

Pins 16 and 17 are the analog output pins on the optional output module. Their pin definitions are: Pin 16 Positive (+) analog output. Negative (-) analog output. Pin 17

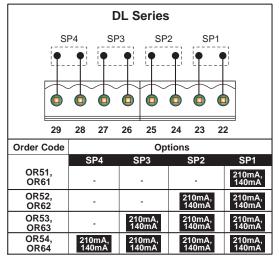
Connector Pinouts continued

Pins 18 to 21 – Rear Panel Function Pins

- **Pins 18 to 21** provide functions that can be implemented with an external switch. Their pin definitions are:
- Pin 18 DIM. By connecting the display dim (DIM) pin to the COMMON pin, the display brightness setting is halved.
- **Pin 19 COMMON.** To activate the LOCK or DIM functions from the rear of the meter, the respective pins have to be connected to the COMMON pin. This pin is connected to the internal power supply ground.
- Pin 20
 HOLD. By connecting the HOLD pin to the COMMON pin, the displayed reading is frozen, however, A/D conversions continue. When the HOLD pin is disconnected from the COMMON pin, the correct reading is displayed.
- Pin 21 LOCK. By connecting the LOCK pin to the COMMON pin, the meter's programmed parameters can be viewed but not changed.

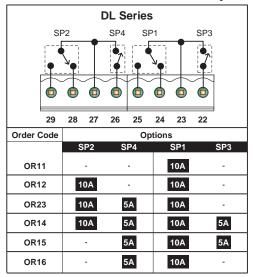
Pins 22 to 29 - Output Module Pins

Relay Modules with 4 Independent 400V (210mA DC only) or (140mA AC/DC) SSRs

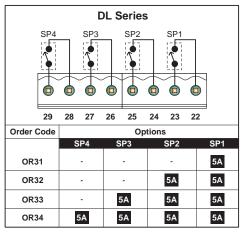


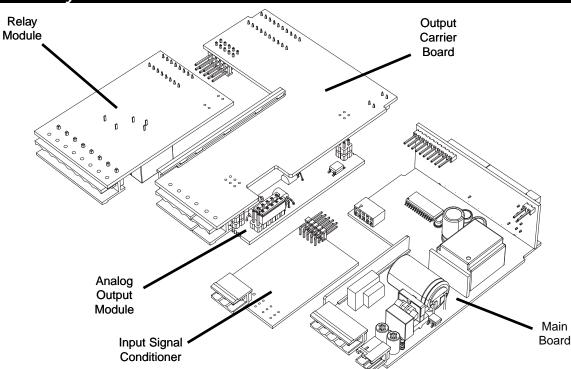
Component Layout

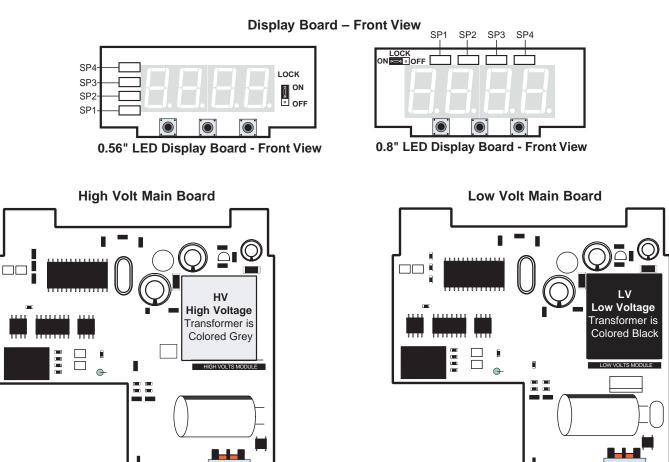
Relay Modules with 2 Non-Isolated 5A Form A Relays, and 2 Non-Isolated 10A Form C Relays



Relay Modules with 4 Isolated 5A Form A Relays



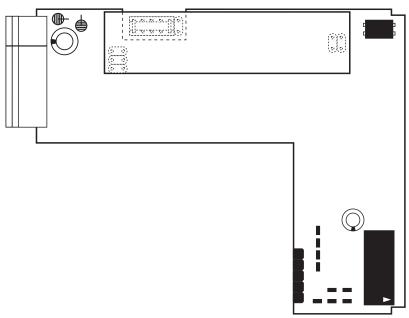






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I-Series Input Signal Conditioning Modules

Symbols Indicate Module Compatibility Within Meter Families						
TIGER Family	TIGER Family	TIGER Family				
LEOPARD Family	LEOPARD Family	LEOPARD Family				
LYNX Family	LYNX Family	LYNX Family				
ALL MODELS	SOME MODELS	MODEL SPECIFIC				

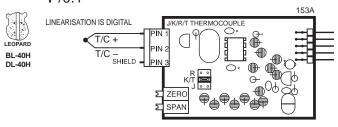
Pre-calibrated **I-Series** input modules, that have span or zero potentiometers, can be interchanged between any **I-Series** compatible meter, without recalibration, because all of the analog scaling and reference circuitry is self-contained within the module.

Unless otherwise specified Texmate will ship all modules pre-calibrated with factory preselected ranges and/or scalings as shown in **BOLD** type. Other pre-calibrated standard ranges or custom ranges may be ordered. Factory installed custom scaling and other custom options are also available (see Ordering Information, Special Options on last page).

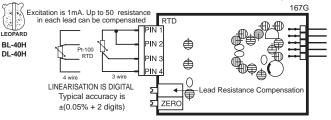


WARNING: AC and DC input signals and power supply voltages can be hazardous. Do Not insert, remove or handle modules with live wires connected to any terminal plugs.

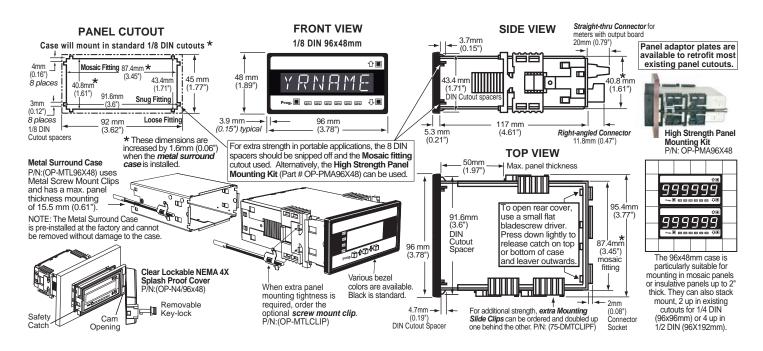
IT10: Thermocouple, J/K/R/T, Selectable °C/°F, 1°/0.1°



IT11: RTD, 100 Pt. Select 3/4-wire, °C/°F, 1°/0.1° IT15: RTD, 1000 Pt. Select 3/4-wire, °C/°F, 1°/0.1°



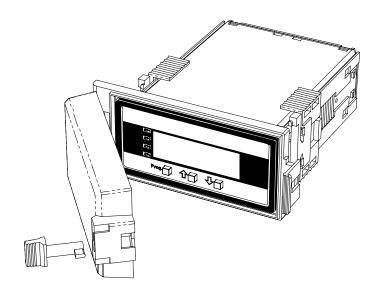
Case Dimensions



Lens Cover OP-N4X/96X48

The lens cover is designed to be dust and water proof to NEMA-4 standards. The lens cover consists of a base and cover with a cam hinge and key-lock locking device.

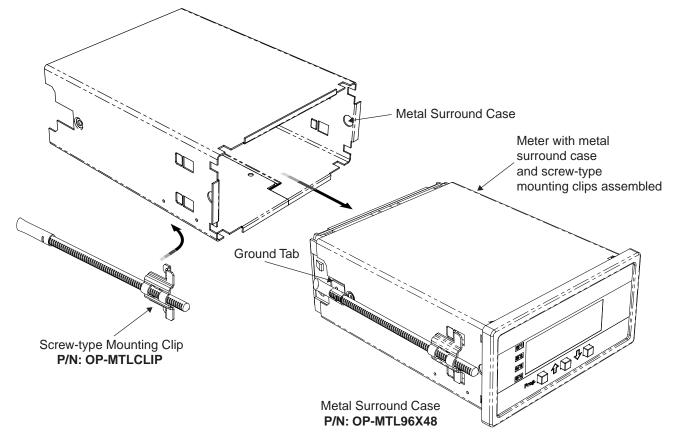
An O-ring, or neoprene gasket forms a seal between the base and the panel. The cam hinge prevents the cover from closing when opened until pushed closed. The cover has a tapered recess that, when closed, forms a capillary seal with a tapered ridge on the base. Turning the key-lock tightens the cover to the base, ensuring seal integrity. A safety catch keeps the cover closed even when the key is turned to the open position and removed. The keyhole can also be used to attach a safety seal clip, preventing unauthorized opening.



Metal Surround Case OP-MTL96X48

The meter's plastic case is made from fire retardant polycarbonate. A metal surround case can be ordered to enhance the meter's fire retardant capabilities and also provide shielding against electromagnetic interference (EMI). The metal case slides over the polycarbonate case and is held firmly in place by spring-type non-return clips. Once the metal case has been fitted to the polycarbonate case it cannot be removed. With the metal case in place, the meter's plastic ratchet-type mounting clips can no longer be used. A pair of screw-type mounting clips are inserted into holes on the side of the metal case and used to mount the meter in the panel. A ground tab on the metal case provides a ground connection between the meter's main board and the metal case.

* Metal Surround Case must be factory installed.



Ordering Inf	orn	nation											
BASIC MODEL #		DISPLAY	I	POWER SUPPLY	(INPUT MODULES	A	NALOG OUTPU	T*	RELAY OUTPUT*	OP	TIONS / ACCESSORI	IES
DL-40H	–		–		_		-		-		_	OA	

Add to the basic model number the order code suffix for each standard option required. The last suffix is to indicate how many different special options and or accessories that you may require to be included with this product. *Except when when R1 or R2 relay output is selected, a meter ordered with an analog output or a relay output module requires an Output Module Carrier Board which should be automatically included with the order, with an additional charge. (See special Options and Accessories section)

Ordering Example: DL-40H-DR-PS1-IA01-AIC-R1-0A2, the 2 OA's are, CR-CHANGE and a OP-N4X/96X48

► BASIC MODEL NUMBER

DL-40H . . . 96x48mm, Leopard, 4 Digit, Temperature

Standard Options for this Model Number

Order Code Suffix

Description

▶ DISPLAY

DR . . Red LED, 0.56 inch high DB .Super-bright Red LED, 0.56 inch high

DG .Green LED, 0.56 inch high Large Green LED, 0.8 inch high LG LR Large Red LED, 0.8 inch high

► POWER SUPPLY PS1 . .85 - 265VAC / 95 - 370VDC PS2 . . .15 - 48VAC / 10 - 72VDC

▶ INPUT MODULES (Partial List. See www.texmate.com)

Unless otherwise specified Texmate will ship all modules precalibrated with factory preselected ranges and/or scalings as shown in BOLD type.

IT10 $\,$. .Thermocouple, $\,$ J/K/R/T, Selectable °C/°F, $1^{\circ}/0.1^{\circ}$ IT11 . .RTD, 100 Ω Pt. Selectable 3/4-wire, °C/°F, 1°/0.1°, 385/392

► ANALOG OUTPUT *Add \$7 for an Output Module Carrier Board AIC Isolated 16 Bit Current Output, 0-20mÅ and 4-20mA, pls. specify AIV Isolated 16 Bit Voltage Output, 0-10VDC

▶ RELAY OUTPUT

Note: R1 and R2 are located on the main board, and are generally used when only two Form A Relays or less are required and an Analogy Output is not required. Single 5A Form A Relay Dual 5A Form A Relays R2

▶ RELAY OUTPUT MODULES

Note: If a meter is ordered with a Relay Output Module, but without Analog Output, an Output Module Carrier Board should be automatically added to the order.

OR11 . . One 10 Amp Form C Relay, Isolated

- OR15 . . One 10 Amp Form C and Two 5 Amps Form A Relays OR16 . . One 10 Amp Form C and One 5 Amp Form A Relays

- OR12 . .Two 10 Amp Form C Relays, Isolated OR14 . .Two 10 Amp Form C and Two 5 Amps Form A Relays OR23 . .Two 10 Amp Form C and One 5 Amp Form A Relay, Isolated
- OR31 .One 5 Amp Form A Relay, Isolated
- OR32 . .Two 5 Amp Form A Relays, Isolated
- OR33 .Three 5 Amp Form A Relays, Isolated
- . Four 5 Amp Form A Relays, Isolated OR34

WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

- OR51 . .One 400V DC Solid State Relay (SSR) 210mA OR52 . .Two 400V DC Solid State Relays (SSR) 210mA
- . Three 400V DC Solid State Relays (SSR) 210mA OR53
- OR54 ... Four 400V DC Solid State Relays (SSR) 210mA

Solid State Relay (SSR) Output Modules AC/DC

- OR61 . .One 400V AC/DC Solid State Relay (SSR) 140mA OR62 . .Two 400V AC/DC Solid State Relays (SSR) 140mA
- . .Three 400V AC/DC Solid State Relays (SSR) 140mA . .Four 400V AC/DC Solid State Relays (SSR) 140mA OR63
- OR64

Special Options and Accessories (OA's)

Part Number

SPECIAL OPTIONS (Specify Inputs or Outputs & Reg. Reading)

Description

OP-MTLCLIP Screw Mounting Clips' (2 pc) - to screw tighten slide brackets OP-MTL96X48 Metal Surround Case, includes screw mounting clips

OP-N4X/96X48 96x48mm clear lockable front cover-NEMA 4X, splash proof Prices subject to change without notice.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

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