

## General Features

- Line Frequency input. Easily user scaled.
- Three frequency ranges of $99.99 \mathrm{~Hz}, 999.9 \mathrm{~Hz}$ and 9999 Hz .
- Optional isolated 16 bit analog output. User or factory scalable to 4 to $20 \mathrm{~mA}, 0$ to 20 mA or 0 to 10 V across any desired digital span from $\pm$ one count to the full scale range of 0 to 9999.
- 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.
- Optional relays. Two 9 Amp Form C and two 4 Amp Form A relay, or optionally four 4 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.

Leopard Line Frequency Meter 4 Digit 0.56" LEDs in a $1 / 8$ DIN CASE

## AC Frequency Meter Controller and Transmitter with ranges of $0.01 \mathrm{~Hz}, 0.1 \mathrm{~Hz}$ and 1 Hz

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## Front Panel Buttons

## Program Button

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

## Up Button

When in the operational display, pressing the $\boldsymbol{\square}$ 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
4 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
$\square$ 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 fol-lowing symbols are used throughout the logic diagrams to represent the buttons and indicators on the meter:


## This symbol represents the

OPERATIONAL DISPLAY.
$\mathbf{P}$ 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 an alternative dotted line is shown, this indicates that an alternative logic branch will be followed when a particular option is present.

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.
[ScLE]
[9999]


When the $\boldsymbol{\square}$ and $\ddagger$ buttons are shown with two displays, either display can be selected by pressing and releasing the $\boldsymbol{\square}$ or $\pm$ 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 $\boldsymbol{\square}$ or buttons.

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

The DL-40F 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.


This Frequency meter may be rescaled without the necessity of applying an external signal by changing the Offset and Scale factor.
Offset is the reading that the meter will display for a zero input. The Offset may be set to any value from -1999 to +9999 . The default value of the Offset is 000 .
Scale factor is the digital gain of the meter. The displayed reading is directly proportional to the Scale factor. The default value of the scale factor is 9999, for direct frequency measurement, but it may be set to any value between -1999 and +9999 for reading any desired engineering unit.

## Digital Rescaling Procedure

STEP A Enter the Calibration Mode

1) Press the $\xlongequal{\square}$ and $\square$ buttons at the same time. Display toggles between [cAL] and [oFF].
2) Press the $\boldsymbol{\square} \boldsymbol{\text { or }} \boldsymbol{\text { button. }}$ Display changes from [oFF] to [on].
3) Press the button. Display toggles between [cAL] and [out].

## STEP B Select Between Calibration of Input or Output

Note: If the analog output option is not present, Step B is skipped and the program goes directly from Step A to Step C.

1) Press the $\square$ or $\ddagger$ button to select the display toggling from [cAL] to [iP].
2) Press the button. Display toggles between [oFFS] and the previous offset setting.

STEP C Set the Offset

1) Press the button. Display toggles between [oFFS] and the previous offset setting. For direct frequency measurement, set the offset to 0 .
If a display that is scaled to read in engineering units is required, this offset may be set to any value from -1999 to +9999.
2) Press the button. Display toggles between [rG] and the previous setting. (See page 5 for setting range, decimal point and brightness)

STEP D Set the Scale Factor

1) Press the $\boldsymbol{\square}$ or button. Display changes from [out] to [iP].
2) Press the $\ddagger$ button. Display toggles between [ScLE] and the previous scale setting.
3) For direct frequency measurement, set the scale to 9999. If a display that is scaled to read in engineering units is required, this scale factor may be set to any value from 0 to 9999.

The Digital Rescaling Procedure Mode is Now Complete.
The menu branches to the RANGE, DECIMAL POINT AND BRIGHTN ESS SELECTION.

## Range, Decimal Point and Brightness Selection

STEP E Select the Range

1) Using the $\boldsymbol{\square}$ and buttons, select the required range. There are three ranges of $99.99 \mathrm{~Hz}, 999.9 \mathrm{~Hz}$ and 9999 Hz
2) Press the button. Display shows the previous [dp] decimal point selection.

## STEP F Select the Decimal Point

1) Using the $\square$ and $\ddagger$ buttons, adjust the display to the desired decimal point setting.
2) Press the button. Display toggles between [br] and the previous brightness setting.

## STEP G Set the Display Brightness

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


STEP A Enter the Calibration Mode

1) Press the $\xlongequal{\square}$ and $\square$ buttons at the same time. Display toggles between [cAL] and [oFF].
2) Press the $\boldsymbol{\square}$ or button. Display changes from [oFF] to [on].
3) Press the button. Display toggles between [cAL] and [out] input calibration.

Note: If at this point the display skips directly to toggle between [oFFS] and the previous [oFFS] setting, the software is detecting that the optional analog output hardware is NOT installed.

## STEP B Enter the Analog [oUT] Output Mode

1) Press the button. Display toggles between [CLo] and an internal scale factor.

STEP C Set or Calibrate the [cLo] Low Analog Output Range

1) Select the voltage or current loop output header position on the output module. (See Component Layout on page 9).
2) Connect a multimeter to pins 16 and 17 on the output module. (See Rear Panel Pinouts on page 8). Using the $\square$ and $\square$ buttons, adjust the analog output to the desired low value as shown on the multimeter display. cLo may be adjusted to any value from -0.3 mA to 17 mA ( mA output selected) or from -0.6 V to 8 V (volt output selected)
3) Press the button. Display toggles between [cHi] and an internal scale factor.

STEP D Set or Calibrate the [cHi] High Analog Output Range

1) Using the $\boldsymbol{\Psi}$ and buttons, adjust the analog output to the desired high value as shown on the multimeter display. cHi may be adjusted to any value from 17 mA to 21 mA (mA output selected) or from 8 V to 10.3 V (volt output selected). However, the value must be higher than the value selected for cLo.
2) Press the button. The display exits the calibration mode and returns to the operational display.

Note: Having established the Low and High range of the analog output, the two digital points between which the analog output will occur can now be selected. (See Digital Span Selection below).

## Range, Decimal Point and Brightness Selection

## STEP A Enter the Range, Decimal Point and Brightness Mode Through the Sub Menu [CAL] [oFF]

1) Press the $\mathbb{\square}$ and buttons at the same time. Display toggles between [cAL] and [oFF].
2) Press the button. Display shows previous [rG] selection.
3) Press the button 3 times to enter the Digital Span Section for Analog Range Output.

Note: For details on selecting Range, Decimal Point and Brightness see page 4.

## Digital Span Selection for Analog Range Output

STEP E Selecting the [Anhi] Digital Value for Analog High Output

1) Using the $\dagger$ and $\rrbracket$ buttons, adjust the display to the desired digital value at which the [chi] Calibrated Analog High output will occur. For digital readings outside the digital span selected, the analog output will linearly rise above the value set for chi, up to the maximum analog output capability. However, the analog output will not go lower than the calibrated value set for cLo (see below).
2) Press the $\rrbracket$ button. Display toggles between [AnLo] and previous [AnLo] setting.

STEP F Selecting the [AnLo] Digital Value for Analog Low Output

1) Using the $\boldsymbol{\Psi}$ and $\ddagger$ buttons, adjust the display to the desired digital value at which the [cLo] Calibrated Analog Low output will occur. For Digital readings outside the Digital Span selected, the analog output will not go lower than the calibrated value set for cLo.
2) Press the button. The display toggles between [cto] and [oFF].

Note: Any two digital span points from -1999 to 9999 can be selected. The digital values for [Anhi] analog high and [AnLo] analog low can be reversed to provide a 20 to 4 mA output. The digital span selected can be as small as two counts, when using the analog output to function as a Control or Alarm Driver. Small digital spans will cause the high resolution 16 bit $D$ to $A$ to increment digitally in stair case steps.


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 $\square$ and buttons at the same time.

Display toggles between [SP1] and the previous [SP1] setting.
STEP B Set Setpoint 1 (SP1)

1) Using the $\dagger$ and $\dagger$ buttons, adjust the display to the desired SP1 value.
2) Press the button. Display toggles between [doM] and the previous [doM] setting.

STEP C Set the SP1 Delay-on-Make (doM) Delay Time Setting

1) Using the $\square$ and $\square$ buttons, adjust the display to the desired [doM] value ( 0 to 9999 seconds). The reading must continuously remain in an alarm condition until this delay time has elapsed before the relay will make contact (energize).
2) Press the button. Display toggles between [dob] and the previous [dob] setting.

STEP D Set the SP1 Delay-on-Break (dob) Delay Time Setting

1) Using the $\square$ and $\ddagger$ buttons, adjust the display to the desired [dob] value ( 0 to 9999 seconds). The reading must continuously remain in an non-alarm condition until this delay time has elapsed before the relay will break contact (de-energize).
2) Press the $\square$ button. Display toggles between [hYSt] and the previous [hYSt] setting.

STEP E Set the Hysteresis Setting for Setpoint 1

1) Using the $\pm$ and $\ddagger$ buttons, adjust the display to the desired hysteresis [hYSt] value.
2) Press the $\square$ button. Display toggles between [SP2] and the previous [SP2] setting. NOTE: Half of the Hysteresis value selected is applied above and below the setpoint.
NOTE: Steps F, G, H and J have functionally the same procedure as steps B, C, D, and E shown above.
STEP F Set Setpoint 2 (SP2)
STEP G Set the SP2 Delay-on-Make (doM) Delay Time Setting
STEP H Set the SP2 Delay-on-Break (dob) Delay Time Setting
STEP I Set the Hysteresis Setting for Setpoint 2
3) Using the $\Psi$ and $\boxplus$ buttons, adjust the display to the desired hysteresis [hYSt] value.
4) Press the button. Display toggles between [SP3] and the previous [SP4] setting.

STEP J Set Setpoint 3 (SP3) (No [doM] or [dob])

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

STEP K Set the Hysteresis Setting for Setpoint 3

1) Using the $\square$ and $\ddagger$ buttons, adjust the display to the desired hysteresis [hYSt] value.
2) Press the button. Display toggles between [SP4] and the previous [SP4] setting.

STEP L Set Setpoint 4 (SP4) (No [doM] or [dob])

1) Using the $\dagger$ and $\dagger$ buttons, adjust the display to the desired SP4 value.
2) Press the $\square$ button. Display toggles between [hYSt] and 0 .

STEP M Set the Hysteresis Setting for Setpoint 4

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

STEP N 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.

1) Using the $\uparrow$ and $\ddagger$ buttons, adjust the reading on the display to the desired relay settings: [LLLL], [LhLh], [hLhL], [hhhh].
If only 2 relays installed [Lh] [hL] [hh] [LL].
2) Press the $\square$ 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 9 Amp Form C and dual 4 Amp Form A relays. An analog output module is also shown as installed.
The DL-40-ACA/DL-40-ACV use 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 right-angled connectors as standard. The output module uses straight-thru 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 / 95-300 V DC (PS1) or 18-48 V AC / 10-72 V DC (PS2).

## Pin Descriptions

Input Signal - Pins 1 to 3
Pin 1 to 3 Input

## 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.
Pin 9 SP1 NO. Normally Open 4 Amp Form A.
Pin 10 SP2 NO.
Pin 11 SP2 NO. Normally Open 4 Amp Form A.
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/95-300 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.
Pin 17 Negative ( - ) analog output.
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 Descriptions (continued)

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 300V (210mA DC only)


Relay Modules with 2 Non-Isolated 4A Form A Relays, and 2 Non-Isolated 9A Form C Relays

| DL Series |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 29 | 87 | 625 | 23 |  |
| Order Code |  |  |  |  |
|  | SP2 | SP4 | SP1 | SP3 |
| OR11 | - | - | 10A | - |
| OR12 | 9A | - | 9A | - |
| OR23 | 9A | 4A | 9A | - |
| OR14 | 9A | 4A | 9A | 4A |
| OR15 | - | 4A | 9A | 4A |
| OR16 |  | 4A | 9A | - |

Relay Modules with 4 Isolated 5A Form A Relays


## MAIN BOARD



MAIN BOARD HI BOLTAGE

## Input Module IF08

Line Frequency 99.99/999.9/9999Hz



MAIN BOARD LOW BOLTAGE

IF08: Line Frequency


## Case Dimensions



## Installation

1. Install and wire meter per local applicable codes/regulations, the particular application, and good installation practices.
2. Install meter in a location that does not exceed the maximum operating temperature and that provides good air circulation.
3. Separate input/output leads from power lines to protect the meter from external noise. Input/output leads should be routed as far away as possible from contactors, control relays, transformers and other noisy components. Shielding cables for input/output leads is recommended with shield connection to earth ground near the meter preferred.
4. A circuit breaker or disconnect switch is required to disconnect power to the meter. The breaker/switch should be in close proximity to the meter and marked as the disconnecting device for the meter or meter circuit. The circuit breaker or wall switch must be rated for the applied voltage (e.g., 120VAC or 240VAC) and current appropriate for the electrical application (e.g., 15A or 20A).
5. See Case Dimensions section for panel cutout information.
6. See Connector Pinouts section for wiring.

7. Use 28-12 AWG wiring, minimum $90^{\circ} \mathrm{C}(\mathrm{HH})$ temperature rating. Strip wire approximately 0.3 in . (7-8 mm ).
8. Recommended torque on all terminal plug screws is 4.5 $\mathrm{lb}-\mathrm{in}(0.51 \mathrm{~N}-\mathrm{m})$.

## Clear Lockable Water-proof Lens Cover OP-N4X/96X48



The clear lockable cover is designed to be dust and water proof to NEMA-4X, IP65 standards. The assembly consists of a base and cover with a cam hinge and key-lock fastening mechanism. 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 seal with a tapered spigot on the base. A key-lock employs a cam locking device to force the spigot into the recess, ensuring seal integrity. A safety catch keeps the cover closed even when the key is removed, and the keyhole can be used to attach a safety seal clip, preventing unauthorized opening.

## Metal Surround Case Option OP-MTL96X48

Part No.
OP-MTL96X48

## Meter with Metal Surround Case

and screw-type mounting clips



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. The Metal Surround Case must be factory installed on the polycarbonate case and once installed, it cannot be removed in the field.

With the metal case in place, the meter's standard ratchet-type mounting clips can not be used. Instead a pair of screw-type DIN standard mounting clips are provided, which clip into holes on the side of the metal case and tighten against the rear of the panel. A ground tab on the metal case enables the metal case to be easily connected to the panel ground.


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. (See special Options and Accessories section)

- BASIC MODEL NUMBER

DL-40-HZ . . . 96x48mm, Leopard, 4 Digit, Line Frequency . . . . . . . . . . . . \$110

# Standard Options for this Model Number 

Order Code Suffix Description List

## - DISPLAY

## DR. . . . .Red LED, 0.56 inch high

DB. . . .Super-bright Red LED, 0.56 inch high
DG . . . Green LED, 0.56 inch high.
LG. . . . Large Green LED, 0.8 inch high
LR . . . . Large Red LED, 0.8 inch high

## - POWER SUPPLY

PS1....85-265VAC / 95-300VDC
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.

IF08 . . Line Frequency 99.99/999.9/9999Hz

- ANALOG OUTPUT *Add $\$ 7$ for an Output Module Carrier Board AIC . . Isolated 16 Bit Current Output, 0-20mA 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 general-
ly used when only two Form A Relays or less are required and an Analogy Output is not required.
R1... Single 4A Form A Relay
R2. . . Dual 4A Form A Relays

## - 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 9 Amp Form C Relay, Isolated.
OR15 . One 9 Amp Form C and Two 4 Amps Form A Relays
OR16 . One 9 Amp Form C and One 4 Amp Form A Relays.
OR12 . . Two 9 Amp Form C Relays, Isolated.
OR14 ..Two 9 Amp Form C and Two 4 Amps Form A Relays
OR23 ..Two 9 Amp Form C and One 4 Amp Form A Relay, Isolated
OR31 . . One 4 Amp Form A Relay, Isolated
OR32 . .Two 4 Amp Form A Relays, Isolated
OR33 . . Three 4 Amp Form A Relays, Isolated
OR34 . .Four 4 Amp Form A Relays, Isolated.
Solid State Relay (SSR) Output Modules DC Only
OR54 . . Four 400V DC Solid State Relays (SSR) 210mA . . . . . . . . . . . . . .

# Special Options and Accessories (OA's) 

## Part Number

## - SPECIAL OPTIONS (Specify Inputs or Outputs \& Req. Reading)

## Output Module Carrier Board

*One carrier board must be ordered with any meter that includes any one or more of the following options: Analog Output and/or Relay Output Modules. SA-DL/OM-CB . . .Output Module Carrier Board, DL series

CR-CHANGE . . Range Change from Standard Range shown in BOLD type CS-3/3.5/4.... Custom display scaling within standard ranges COA-3/3.5/4... Custom scaling of analog output

- ACCESSORIES

75-DBBZ9648F. . . . Black Bezel for 96x48mm Case.

75-DMTCLIPF . . . .Side Slide Brackets (2 pc) - extra set, extra strength 76-DL40G-N4 76-DL40LG-N4 76-DL40LG-N4 76-DL40LR-N4 76-DL40R-N4
ART-FS-S/D
ART-FS-001.
OP-MTLCLIP
OP-MTL96X48 OP-N4X/96X48. "Touch" Green LED Faceplate, NEMA 4, Factory install "Touch" Large Green LED Faceplate, NEMA 4, Factory install "Touch" Large Red LED Faceplate, NEMA 4, Factory install "Touch" Red LED Faceplate, NEMA 4, Factory install. . NRC for artwork \& set-up Faceplate/Desc. Install Custom Faceplate per meter - 1 color. Screw Mounting Clips (2pc) - to screw tighten slide brackets Metal Surround Case, includes screw mounting clips . 96x48mm clear lockable front cover-NEMA 4X, splash proof

Prices subject to change without notice.

## 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.

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## 7/EXMATE

Smart Measuring Smart Control $\overline{\overline{\text { U.S.A. }}}$
450 State Place • Escondido, CA 92029
Tel: 1-760-598-9899 • USA 1-800-839-6283 • 1-800-TEXMATE
Fax: 1-760-598-9828 • Email: orders@texmate.com • Web: www.texmate.com

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