

approved for Texmate's Leopard F amily of meters . Some e xamples are sho wn on pages 10 - 12. See www.texmate.com for an up to date listing.



## Specifications

Input Specs	Depends on Input signal conditioner					
A/D Converter:						
	$\dots \pm (0.05\%)$ of reading + 2 counts)					
Temp. Coeff.:						
Warm up time:						
	5 conversions per second (Typical)					
Display:4 digit 0.56" Red LED display (std),						
<b>Diopidy</b>	0.56" or 0.8" Red, Green or Super					
	Bright Red (optn)					
	Range –1999 to 9999 counts.					
Polarity:	Assumed positive. Displays – negative					
	Front panel button selectable, X•X•X•X•					
	Top segments of digital display flash					
	Bettom 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 $500 \Omega$ max loop resistance					
	0-10 V DC @ 500 $\Omega$ 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.:	0 to 60 °C					
Storage Temp:	–20 °C to 70 °C.					
Relative Humidity: .	95% (non condensing)					
Case Dimensions: .	1/8 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					

- (UP, DOWN and PROGRAM buttons).
- 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.

- AC/DC Current Pressure - AC/DC Voltage
  - Process
  - \*Temperature - 4 to 20 mA - Prototype
- Load Cell \*See models DL-40H for higher accuracy digitally linearized thermocouple and RTD
- 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 r ange 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).
- 24 V DC excitation is available to power external transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors such as Load Cells and Pressure Transducers.
- Standard red or optional g reen or super br ight red 4-digit LED with display range -1999 to 9999 (12000 counts).
- 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 relays, or optionally four 5 Amp Form A relays are available.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real input signal changes.

# Software Features

- Three-button programming from the front panel
- · Three front panel selectable ranges.

Ordering Information						
	POWER SUPPLY	INPUT MODULES	ANALOG OUTPUT*	<b>RELAY OUTPUT*</b>	OPTIONS / ACCESSORIES	
DL-40PSF — —	- <b>—</b>				- OA	
Add to the basic model number the order code suffix for e require to be included with this product. *Except when whe Carrier Board which should be automati	n R1 or R2 relay output cally included with the c	is selected, a meter or order, with an additiona	dered with an analog outpu al charge. (See special Optic	t or a relay output modu	le requires an Output Module	
Ordering Example: DL-40PSF-DR-PS1-IA01-AIC-I	R1-0A2, the 2 0A's a	•				
► BASIC MODEL NUMBER DL-40PSF96x48, Leopard, 4 Digit		► DEI	lsolated 16 Bit Voltage Outp AY OUTPUT			
Standard Options for this Model Number			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. R1 Single 5A Form A Relay R2 Dual 5A Form A Relays			
Order Code Suffix Description						
► DISPLAY DRRed LED, 0.56 inch high DBSuper-bright Red LED, 0.56 inch high DGGreen LED, 0.56 inch high LGLarge Green LED, 0.8 inch high LRLarge Red LED, 0.8 inch high		Note: If a Carrier B		utput Module, but without ded to the order.	Analog Output, an Output Module	
POWER SUPPLY PS1 85 - 265VAC / 95 - 370VDC PS218 - 48VAC / 10 - 72VDC      INPUT MODULES (Partial List. See www.texmate.com	OR16 . OR12 . OR14 . OR23 . OR23 . OR31 .	OR11 One 10 Amp Form C Relay, Isolated OR15 One 10 Amp Form C and Iwo 5 Amps Form A Relays OR16 One 10 Amp Form C and One 5 Amp Form A Relays OR12 Iwo 10 Amp Form C Relays, Isolated OR14 Iwo 10 Amp Form C and Iwo 5 Amps Form A Relays OR23 Two 10 Amp Form C and One 5 Amp Form A Relays OR31 One 5 Amp Form A Relay, Isolated OR32 Iwo 5 Amp Form A Relay, Isolated OR32 Iwo 5 Amp Form A Relays, Isolated OR34 Four 5 Amp Form A Relays, Isolated				
Unless otherwise specified Texmate will ship all modules precalibrated wi and/or scalings as shown in <b>BOLD</b> type	OR32 . OR33 . OR34 .					
IA01      AC-Volts Scaled RMS, 200/600V AC         IA02      AC-Volts Scaled RMS, 200/2000A AC         IA03      AC-mA Scaled RMS, 2/20/200mA AC         IA04      AC-map Scaled RMS, 0-1 Amp AC (0-100.00)         IA05      AC-Amps Scaled RMS, 0-1 Amp AC (0-100.00)         IA05      AC-Amps Scaled RMS, 0-5 Amp AC (0-100.00)         IA06      AC-Volts True RMS, 200/600V AC         IA07      AC-Volts True RMS, 200/00V AC         IA08      AC-mA True RMS, 2/20/200mA AC         IA08      AC-maps True RMS, 0-1 Amp AC (0-100.00)         IA10      AC-Amps True RMS, 0-5 Amp AC (0-100.00)         IA11      AC-Amps True RMS, 0-5 Amp AC (0-100.00)         IA12      AC-MILIIvolt, True RMS, 100mV AC         ID01      DC-Volts, 2/20/200V/Custom w/24V DC Exc         ID02      DC-MILIIvolt, 20/20/100/200mV DC w/24V DC Exc		Solid Sta OR51 OR52 OR53 OR54 OR54 OR54 OR51 OR61 OR62 OR63 OR63	Ate Relay (SSR) Output Module One 400V DC Solid State R Two 400V DC Solid State R Three 400V DC Solid State Four 400V DC Solid State One 400V AC/DC Solid State Two 400V AC/DC Solid Sta Three 400V AC/DC Solid Sta Four 400V AC/DC Solid Sta Cial Options and A	IS DC Only elay (SSR) 210mA elays (SSR) 210mA Relays (SSR) 210mA telays (SSR) 210mA IS AC/DC te Relay (SSR) 140mA tate Relays (SSR) 140mA tate Relays (SSR) 140mA		
ID02 DC-Milliamp, 2/20/200mA DC w/24V DC Exc ID03 DC-Milliamp, 2/20/200mA DC w/24V DC Exc ID04 DC-Amps 5A DC		Part Nu		Description		
ID01         DC-Volts, 2/20/200V/Custom w/24V DC Exc           ID02         DC-Volts, 2/20/200W/DC word DC w/24V DC Exc           ID03         DC-Milliam, 2/20/200mA DC w/24V DC Exc           ID04         DC-Amps, 5A DC           ID05         DC-Volts 2/20/200mA DC w/24V DC Exc           ID04         DC-Amps, 5A DC           ID05         DC-Volts 2/20/200mA DC w/0ffset and 24V ID           ID07         DC-Milliam, 2/20/200mA DC w/0ffset and 24V Exc           ID09         DC-Milliam, 2/20/200mA DC w/0ffset and 24V Exc           ID04         DC-Milliam, 2/20/200mA DC w/0ffset and 24V Exc           IG17         Universal Process Loop, 4-20mA(0-100.00)           IP03         Process Loop, 4-20mA(0-100.00) w/24VDC Exc           IP03         Process Loop, 4-20mA(0-100.00) w/0ffset, 24V E           IP04         Process Loop, 4-20mA(0-100.00) w/04VDC Exc           IP07         Procoss 20/5V/10V/2020/200V/200V/20	Exc. )OHz e for Y & Z (IGAZ to IGKZ Exc /Custom	▶ SPE Output 1 "One car sA-DJ/C CR-CH/ CS-3/3 COA-3/ CCL-SE CCL-INS CCL-INS CCL-INS CCL-SE CCL-INS CSR-INS CSS-SE CSS-SE CSS-SE CSS-SE CSS-SE COR-INS	CIAL OPTIONS (Specify Module Carrier Board irer board must be ordered with Analog Output and/or Relay Ou M-CBOutput Module   NGERange Change f 5/4Custom displa 3.5/4Custom displa 3.5/4NRC to set-up C TUPNRC to set-up C TLFactory installation TUPNRC to set-up C INSTLInstallation - for TUPNRC to set-up C INSTLInstallation - for TUPNRC to set-up C INSTLInstallation - Relay	any meter that includes ar put Modules. Carrier Board, DL series rom Standard Range shown y scaling within standar if analog output for digital m ustom Configuration, speci ustom selectable range I- custom configuration, speci ustom special scaling 3.5 and 4.0 meters, speci lays in non-standard loca	n in <b>BOLD</b> type d ranges eters & bargraphs nd issue serial # y serial #CCL- fy serial # CSR- y serial # CSS- tions	
IR05       Resistance 2KΩ         IS01       Strain Gage 5/10VDC Exc., 20/2mV/V, 4/6-wire         IS02       Pressure 5/10VDC Exc., 20/2mV/V, 4/6-wire         IS04       Pressure Ext Exc., 20/2mV/V, 4/6-wire         IS05       Pressure Ext Exc., 20/2mV/V, 4/0-wire         IS06       Pressure/Load Cell 20/2mV/V, 5/10V Exc 4-wire         IS06       Pressure/Load Cell 20/2mV/V, 5/10V Exc 4-wire         IS07       Pressure/Load Cell 20/2mV/V, 4-wire         IS07       Pressure 20/2mV/V with High Impedance and External I         IS03       RTD, 100Ω Pt. 2/3/4-wire (-200 to 1470°F)         IT05       RTD, 100Ω Pt. 2/3/4-wire (-100 to 199.0°F)         IT06       Thermocouple, J Type (0-1400°F)         IT08       Thermocouple, J Type (0-760°C)         IT09       Thermocouple, K Type (0-1260°C)         IT14       .RTD, 100Ω Pt. 2/3/4-wire (-199.0 to 199.0°C)	Excitation		ESSORIES (Specify Seria 9648F Black Bezel for CLIPF Side Slide Bra G-N4 "Touch" Green LG-N4 "Touch" Large R-N4 "Touch" Large R-N4 "Touch" Red L S/D/C NRC for artwor S/D NRC for artwor 001 Install Custom 01 Screw Mounting 96X48 Metal Surroun 96X48 Metal Surroun 96X48 Metal Surroun			

## WARRANTY

WARHANTY Texmate warrants that its products are free from def ects in material and workmanship under normal use and ser vice 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 fac-ity, transportation charges pre-paid, and which are , after examination, disclosed to the satis-faction of Texmate to be thus def ective. The warranty shall not apply to an y 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 e xceed the or iginal pur-chase 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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