Plasser & Theurer					
CE SVDC-POWERED LED VOLTME	(EL-1 3.5 Digit	96x24 P3 790) LED Meter DIN 96X24 MM CASE			
DESCRIPTION	SPECIFICATIONS Measuring Range:	±200 mV DC			
The EL-T 790 is a $3\frac{1}{2}$ digit voltmeter in a compact 96x24 mm case, powered by a 5 VDC supply.	weasunng nange.	±200 mV DC ±2 V DC (standard) ±20 V DC ±50 V DC Ranges changed by closing			
The meter is available in four ranges of 200 mV DC, 2 V (standard), 20 V, and 50 V. The EL-T 790 may also be cal-		jumpers on PCB			
ibrated at the factory for other specially scaled ranges.	Numerical Range:	±1999			
The display is shipped standard with red LEDs. Display Segment Test is a standard feature.	Resolution:	1 mV standard (100 μV in 200 mV range)			
	Input Impedance:	>1000 M Ω in 200 mV and 2 V ranges 1 M Ω in other ranges			
CALIBRATION PROCEDURE	Measuring Input:	Bipolar			
The EL-T 790 is calibrated at the factory with a precision source. Whenever the range is changed, the meter needs	Temperature Range:	0 °C to 50 °C (working) -20 °C to +70 °C (storage)			
to be recalibrated. The span pot is accessible with the front cover of the meter removed for user calibration.	Linearity:	\pm 0.05 % of reading \pm 1 digits			
1. Make sure there is proper DC power and input.	Display:	14 mm 7-segment LED display, red-orange			
2. Connect the power supply.	Polarity:	Displays "", assumed "+"			
3. Apply a positive signal input equal to 95% of the full-scale input.	Decimal Points:	Externally selectable			
 Adjust span pot in the front of the meter so that the displayed reading agrees with the signal input. 	Overrange:	For overrange, the most significant digit is displayed together with the polarity sign			
5. The EL-T 790 is now calibrated and ready for use.	Power Supply:	5 VDC approx. 1.25 watts			

ORDERING INFORMATION

Span Pot

STANDARD PANEL METER:

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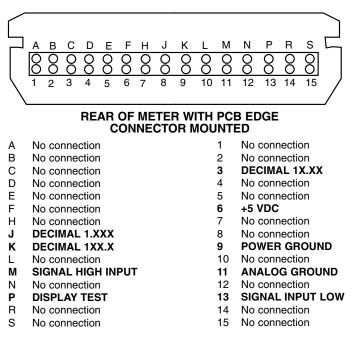
3¹/2 digit LED panel meter; powered from a 5 VDC supply; factory-calibrated for ±2 VDC full scale......EL-T 790

FRONT OF METER

Order Part No.

PIN-OUT DIAGRAM

The Plasser & Theurer model EL-T 790 interconnects by means of a double-sided 30-pin edge connector with 0.156" pitch.



PIN-OUT DESCRIPTIONS

Pin 3 – Decimal 1X.XX: To activate this decimal point, connect this pin to Pin 6 (+5 VDC).

Pin 6 – Positive Power Input: One end of the 5 VDC power is connected to this pin.

Pin 9 – Negative Power Input: The other end of the 5 VDC Power is connected to this pin.

Pin 13 – Signal Input Low: The low end of the input signal is connected to this pin. The input can range from $\pm 200 \text{ mV}$ to $\pm 50 \text{ V}$. The input signal range is selected by closing solder jumpers on the board.

Pin J – **Decimal 1.XXX**: To activate this decimal point, connect this pin to Pin 9 (Power Ground).

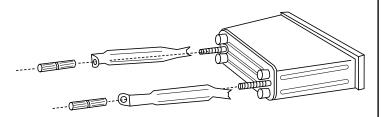
Pin K – **Decimal 1XX.X**: To activate this decimal point, connect this pin to Pin 6 (+5 V DC).

Pin M – **Signal Input High**: The high end of the input signal is connected to this pin. The input can range from $\pm 200 \text{ mV}$ to $\pm 50 \text{ V}$. The input signal range is selected by closing solder jumpers on the board.

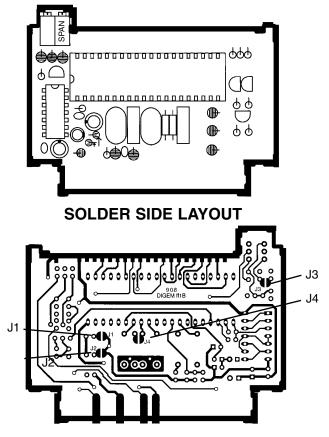
Pin P – Display Test: When this pin is connected to Pin 9, all the numeric segments of the display light up and -1888 is displayed.

REMOVING THE METER FROM THE CASE

Unscrew the knurled collars and remove the mounting clips. Snap out the rear plastic plate. The EL-T 790 printed circuit board can then be easily removed by sliding it out from the rear of the case.



COMPONENT SIDE LAYOUT



CHANGING INPUT RANGE

The input full-scale range is changed by closing or opening solder jumpers on the solder side of the printed circuit board (see above).

Input Signal	Jumper J1	Jumper J2	Jumper J3	Jumper J4
± 2 V	OPEN	OPEN	OPEN	OPEN
± 200 mV	OPEN	OPEN	CLOSED	CLOSED
± 20 V	CLOSED	OPEN	OPEN	OPEN
± 50 V	OPEN	CLOSED	OPEN	OPEN

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