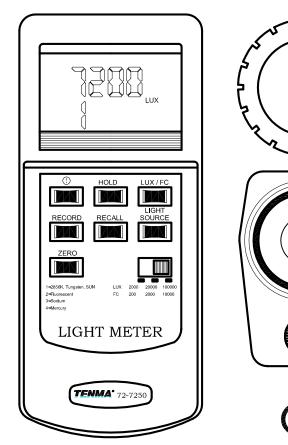


REVISIONS			DOC. NO	. SPC-F004	* Effect	ive: 7/8/02	* DCF	No: 1398
DCP # REV DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
1491	Α	RELEASED	JWM	8/29/03	JC	8/29/03	DJC	8/29/03





- * Microprocessor circuit ensure high accuracy.
- * Super large LCD display with contrast adjustment for best viewing angle.
- * Dual function display.
- * Heavy duty & compact case.
- * Records Maximum, Minimum and Average readings.
- * Data hold.
- * Auto power off.
- * Operates from 9V battery.
- * RS 232 PC serial interface.
- * Spectrum of photo sensor meets C.I.E..
- * Wide range measurement both for LUX & Foot Candle units.
- * Relative % light measurement.
- * User selectable lighting type (Tungsten, Fluorescent, Sodium or Mercury).
- * Zero adjustment by push button.

SPC-F004.DWG

TOLERANCES:	DRAWN BY:	DATE:	DRAW	ING TITLE:							
UNLESS OTHERWISE	Jeff McVicker	8/29/03		Digital	Light	Meter w	vith RS-	-232	Capab	ility	
SPECIFIED,	CHECKED BY:	DATE:	SIZE	DWG. NO.				ELEC	RONIC FIL	E	REV
DIMENSIONS ARE FOR REFERENCE	John Cole	8/29/03	l a l		72-	-7250		16	H5082	.dwg	Α
PURPOSES ONLY.	APPROVED BY:	DATE:					_	_			
	Daniel Carey	8/29/03	SCALE	E: NTS		U.O.M.: Millimeters [I		nches	SHEET:	1 OF	7 4

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General Specifications

 odiloral opodili	
Circuit	Custom one—chip microprocessor LSI
	circuit.
Display	13 mm(0.5") Super large LCD.
	Dual function display.
Lighting Type	Daylight, Tungsten,
Selection	Fluorescent, Mercury lamp.

	LUX	0-50,000 LUX, 3 ranges.				
Measurement	Foot-candle	0-5,000 Ft-cd, 3 ranges.				
& ranges	Relativity	O to 1999 %. (Relative to the range selected and the measured value)				
Sensor	Exclusive photo diode & color correction filter, spectrum designed to meet C.I.E.					
Memory Recall Sample Time		um, Minimum and Average RECALL facility.				
Zero Adj.	By push buttor					
Power off	Manual off by	push button, or Auto shut off				
1 OWEL OIL	after 10 minut	•				
Data Output	RS 232 PC se	rial interface.				
Over Load						
Indication	""					
Operating	0 1- 50 (701	- 122				
Temperature	0 to 50 (32to	0 122)				
Operating Humidity	Max. 80% RH.					
Power Supply	DC 9V battery((heavy duty)				
	or equivalent.					
Power Current	Approx. DC 5.	3 mA. 3 (included batteries)				
Weight						
Size	Main instrumeı					
		8 mm (7.3 x 3.1 x 1.5 inch)				
	Sensor probe:	/				
		n(3.2x2.2x0.5 inch).				
Accessories	Instruction ma					
Included	Sensor with pi	rotective cover.				
Optional		* Software (Windows version), 72-6701				
Accessories	* RS232 cable	9, /2-6/02				

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Electrical Specifications (23°C \pm 5°)

Measurement	Range	Max. In—range
	-	Display
	2,000 Lux	0 - 1,999 Lux
LUX	20,000 Lux	1,800 - 19,990 Lux
	50,000 Lux	18,000 - 50,000 Lux
	200 Ft-cd	0 - 186.0 Ft-cd
Foot—candle	2,000 Ft-cd	167 - 1,860 Ft-cd
	5,000 Ft-cd	1,670 - 5,000 Ft-cd

Range	Resolution	Accuracy
2,000 LUX	1 Lux	
20,000 LUX	10 Lux	
50,000 LUX	100 Lux	±(4%+2 dgt)
200 Ft-cd	0.1 Ft-cd	
2,000 Ft-cd	1 Ft-cd	
5,000 Ft-cd	10 Ft-cd	

Note: Accuracy tested by a standard parallel light tungsten lamp of 2856K temperature.

RS232 PC INTERFACE

The instrument features an RS232 output via 3.5 mm Terminal (3-15, Fig. 1).

The connector output is a 16 digit data stream which can be utilized to the user's specific application.

An RS232 lead with the following connection will be required to link the instrument with the PC serial input.

Optional	Software (Windows version), 72-6701
Accessories	RS232 cable, 72-6702

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RS232 PC INTERFACE (Continued)

The 16 digit data stream will be displayed in the following format :

D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1 D0

Each digit indicate the following status :

DO	End Word
D1 to D4	Upper Display reading, D1=LSD, D4=MSD
D5 to D8	Lower Display reading, D5=LSD, D8=MSD

D9	Decimal Point(DP) for 0 = No DP, 1= 1 DP	Upper display. 2, 2 = 2 DP, 3 = 3 DP			
D10	Decimal Point (DP) for lower display 0 = No DP, 1= 1 DP, 2 = 2 DP, 3 = 3 DP				
	Anunuciator for Upper	r Display			
D11 & D12	15 = Lux	03 = %			
	16 = Ft-cd				
D13	Anunuciator for Lower Display				
טוט	0 = No Symbol				
D14		wer display value are "+"			
U14 	1 =Upper "-", Lower "+". 2 =Upper "+", Lower "-".				
	3 =Both upper & lo	wer display value are "—"			
D15	Start Word				

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