

# ENGINE GAGE PANEL

MODEL 2510T

# CURTIS

1960 · 2000



## DESCRIPTION

*The Curtis Series 2510T panel houses up to three engine function gages, or two engine gages and an hour meter. In addition, up to five indicator LEDs can be included. An icon panel with up to twelve LED icons is also available in this model series.*

## WARRANTY

Three years from date of delivery.

## Application

This Engine Gage Panel is especially designed to meet the rugged needs of construction equipment, material handling and agricultural vehicles. It can also be optimized for use in generators, compressors and other stationary equipment.

## Features

- All components are solid-state, providing high accuracy and excellent performance in high shock and vibration environments.
- Modular construction allows OEMs to specify a customized panel without incurring the charges associated with tooling a new case.
- Panels can be built with 10 bar tri-colored LED or 10 segment LCDs. Gage modules can be custom programmed for expanded resolution in key areas of interest.
- Each module can be programmed to accept virtually any sensor input. (Curtis can also supply matching engine gage senders, if desired.)
- A Curtis solid state hour meter stores the latest reading in a non-volatile EEPROM memory. No power is required, not even the maintenance prone backup batteries used in competitive units.
- Long-life indicator LEDs eliminate the need for incandescent bulbs which require periodic changing.
- Connectors in the rear of the panel greatly reduce installation costs.
- 50 x 100mm rectangular case fits in a standard 48 x 96mm DIN cutout.
- Options such as MOSFET outputs make this panel ideal for stationary equipment applications. Engine shutdown and audible alarms can be implemented easily.

## Specifications

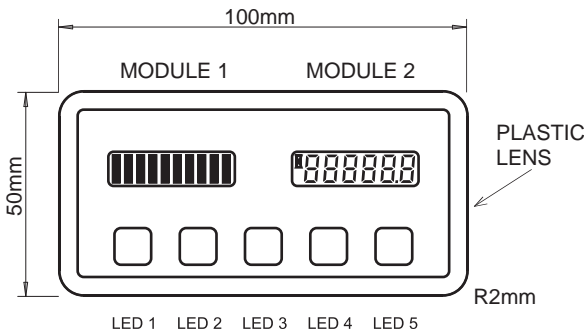
<b>Operating temperature range:</b>	-40 to +60C
<b>Storage temperature range:</b>	-50C to +85C
<b>Mechanical shock:</b>	Meets SAE J1378 March 83. Amplitude 44 -55g, half sine, 9-13 ms duration.
<b>Vibration:</b>	Meets SAE J1378 March 83. Double amplitude of 1.53mm with frequency sweep from 10-80-10 Hz (20g max) at 1 minute intervals.
<b>Humidity:</b>	95% RH (non-condensing) at +38C as per SAE J1455, section 4.2.3
<b>Sealing:</b>	Face, IP65.
<b>Connector:</b>	Molex Mini-Fit Jr. (8 pin and 12 pin)
<b>Operation voltages:</b>	For 12V nominal: 9 to 15V, For 24V nominal: 18 to 30V
<b>Case:</b>	PC plastic.
<b>Lens:</b>	PMMA plastic.

## Model Encodement

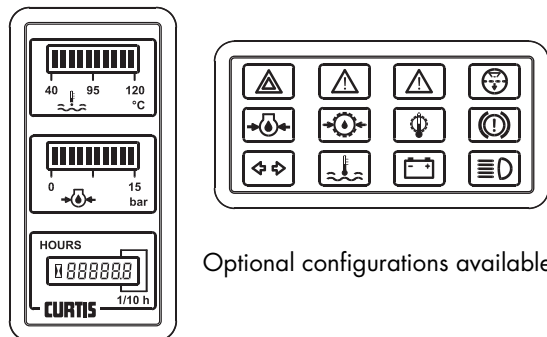
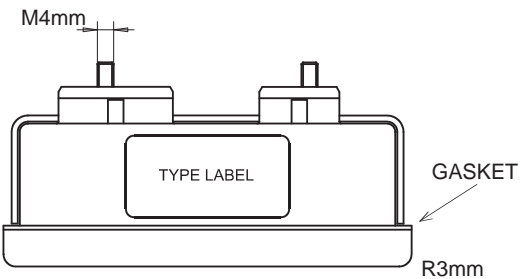
<b>2510T</b>	<b>12</b>	<b>- 0001</b>	<b>OO</b>
<b>Model</b>	<b>Voltage</b>	<b>Sequential number (identifies panel features)</b>	<b>Artwork code</b>

Note: Model 2510 =LED gages and/or a 5mm hour meter display and up to 5 indicator LEDs  
 Model 2511 =LCD gages and/or a 7mm hour meter display and up to 5 indicator LEDs

## Dimensions: mm

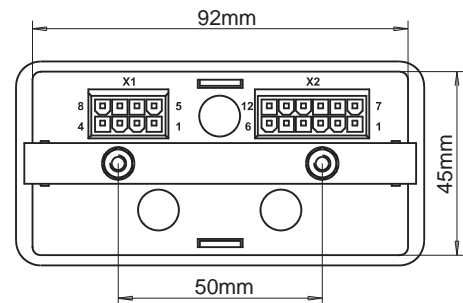


ARTWORK according to CUSTOMER REQUIREMENTS



Optional configurations available

(Model 2511 shown)



FRONT-CUT-OUT: 45+0.6 mm x 92+0.8 mm DIN 43700  
 FRONT: IP 65 IEC 529

### MATING CONNECTOR:

MOLEX / Housing, Dual Row, 8 / No. 39-01-2080	1 pc.
MOLEX / Housing, Dual Row, 12 / No. 39-01-2120	1 pc.
MOLEX / Female Terminal / No. 39-00-0039	18 pcs.

### TYPICAL WIRING

TERMINAL	DESIGNATION	TERMINAL	DESIGNATION
X1/1	SENDER or HOURS - RESET for MODULE 1	X2/1	+ DC for LED 1
X1/2	LOWER OUTPUT or HOURS - INPUT for MODULE 1	X2/2	GROUND for LED 1
X1/3	HIGHER OUTPUT for MODULE 1	X2/3	+ DC for LED 2
X1/4	SENDER or HOURS - RESET for MODULE 2	X2/4	GROUND for LED 2
X1/5	LOWER OUTPUT or HOURS - INPUT for MODULE 2	X2/5	+ DC for LED 3
X1/6	HIGHER OUTPUT for MODULE 2	X2/6	GROUND for LED 3
X1/7	BATTERY +	X2/7	+ DC for LED 4
X1/8	GROUND	X2/8	GROUND for LED 4
		X2/9	+ DC for LED 5
		X2/10	GROUND for LED 5
		X2/11	n.c.
		X2/12	n.c.