

# ENGINE GAGE PANEL

Model 2500S

# CURTIS

1960 • 2000



## DESCRIPTION

*Model 2500S panel houses up to three engine function gages, an hourmeter and five indicator LEDs. 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.*

## 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

- Panels can be built with 10 bar tri-colored LED or 10 segment LCDs. Gage modules can be custom programmed for non-linear inputs, allowing 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 hourmeter stores the latest reading in a non-volatile EEPROM memory. No power is required, not even the maintenance-prone backup battery found in competitive units.
- Long-life indicator LEDs eliminate the need for incandescent bulbs which require periodic changing.
- A single connector in the rear of the panel greatly reduces installation costs.
- 100mm square case fits in a standard 96mm square DIN cutout.
- Options such as MOSFET outputs make this panel ideal for stationary equipment applications. Engine shutdown and audible alarms can be implemented easily.

## Model Description

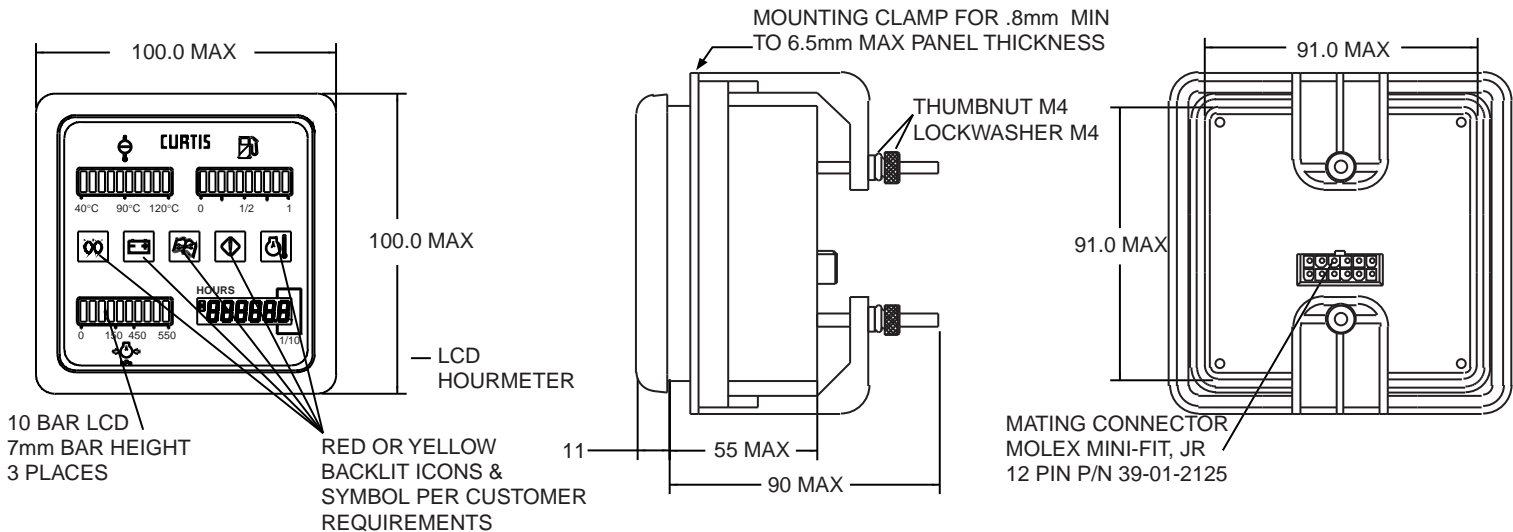
Operating temperature range:	-40 to +85C
Storage temperature range:	-50C to +85C
Mechanical shock:	Meets SAE J1378 March 83. Amplitude 44 -55g, half sine, 9-13 ms duration.
Vibration:	Meets SAE J1378 March 83. Double amplitude of 1.53mm with frequency sweep from 10-80-10 Hz (20g max) at 1 minute intervals.
Signal output format (with MOSFET option):	(N channel only) 2A at 32V maximum.
Humidity:	95% RH (non-condensing) at +38C as per SAE J1455, section 4.2.3
Sealing:	Face, IP65.
Connections:	Choice of Molex Mini-Fit Jr. (12 pin) or Deutsch DT (12 pin)
Operation voltages:	For 12V nominal: 9 to 16V, For 24V nominal: 18 to 32V
Case:	ABS plastic.
Lens:	Choice of glass (standard) or shatter and scratch resistant plastic.

## Model Encodement

<b>2500</b>	<b>S</b>	<b>12</b>	<b>-0001</b>	<b>M</b>	<b>00</b>
Model number	Square case	Voltage	Sequential number identifies panel features	Connector code	Artwk code

Note: Model 2500 = LED gages and a 5mm hourmeter display  
 Model 2501 = LCD gages and a 7mm hourmeter display

## Dimensions: mm



## Pin Assignment

PIN FUNCTION	PIN FUNCTION
1 B+	7 LED Icon 1
2 Common	8 LED Icon 2 or Opt. Output
3 Sender (upper left gage)	9 LED Icon 3
4 Sender (lower left gage)	10 LED Icon 4 or Opt. Output
5 Sender (upper right gage)	11 LED Icon 5
6 Hour Meter Input	12 Spare

## Options

- Sealed Deutsch connector
- Shatter resistant plastic lens
- MOSFET outputs