

GLE/TCD-100 Miniature Onboard Time Code Display

Main Features

- IRIG-B / NMEA Time Decoder / Reader
- Miniature size, Solid & Rugged construction
- Front panel adjustable brightness
- High stability internal clock
- Wide V-DC power-supply range



Description

GLE/TCD-100 is available in three variants that support different kinds of time source.

This unit decodes and displays the input time as Hours, Minutes and

Seconds on a six digits LED display as HH : MM : SS.

Its intensity is user adjustable via a front panel selector switch.

In the absence of an applied time source input it shows the internal

clock and the displayed colons flash at 1Hz rate.

GLE/TCD-100 is housed in a robust flange mountable milled aluminum enclosure, designed to meet "Safety of Flight" requirements.

Main Characteristics

Time Input	GLE/TCD-100-B01 IRIG B122 1 kHz Time Code, referred also as modulated IRIG B .	GLE/TCD-100-B02 IRIG B002, serial Time Code, TTL level. Referred also as non-modulated IRIG B .	GLE/TCD-100-N01 GPS NMEA RS 232 serial data format, 4.8 kbps, GGA or RMC messages.
Display	Six character, seven segment, LED, Red. Character Height: 7.6 mm [0.3 Inches].		
Intensity	Controllable by front panel. screw-driver, 16 positions/ rotary switch.		
Internal Reference	Temperature compensated crystal oscillator, TCXO $\pm 5 \times 10^6$.		
Power Supply	10 to 36 Volts DC, approx 2 watts @ maximum brightness.		
Enclosure	Milled aluminum black anodized, 90 x 25 x 50 mm (W x H x D) [approx. 3.5 x 1 x 2 inches], rear panel connector excluded.		
Weight	Less than 100 grams [less than 3.5 ounces]		
Temperature Range	Operating -10°C to +60°C		
Humidity	0 ÷ 95% RH non-condensing		
Acceleration	Designed to withstand up to 20 g in all directions		
Vibration	Designed to withstand up to 20 g per MIL-STD 810F		
Shock	Designed to withstand up to 40 g per MIL-STD 810F		

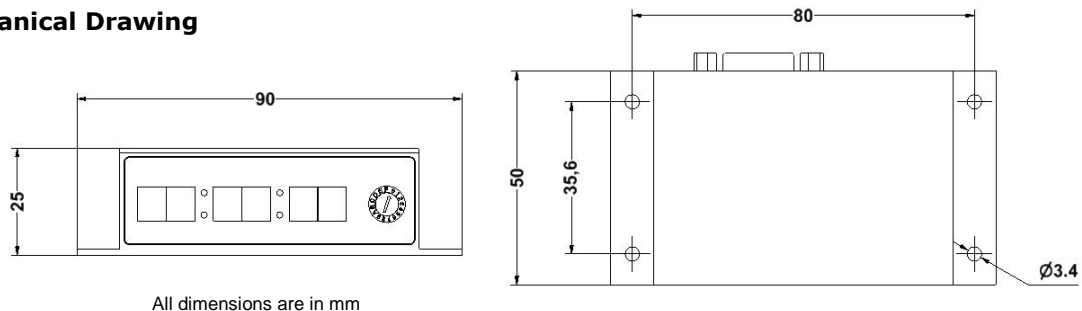
Input & Power Connector

J1 - 9 pin D plug			
	GLE/TCD-100-B01	GLE/TCD-100-B02	GLE/TCD-100-N01
Pin			
1	IRIG B Input	IRIG B002 Input	RS232 Input
2	IRIG B Return	IRIG B002 Return	RS232 Return
4	V DC Power Input		
5	V DC Power Return		
<i>All other Pins are not connected</i>			



GLE/TCD-100 rear view

Mechanical Drawing



Due to continuous developments, specifications are subject to change without prior notice.

This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

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