

TM202X Operations Guide

This manual outlines the operating procedures for all TM202x series products

1. Power Up / Default Screen

Displays both left and right engine RPM information. Colors are determined by the range values as set during installation.



Normal Operations



Redline Condition

If the engines have a limited operations range specified and either or both engine RPM is currently in that range, the display will use a yellow caution bar above the RPM indication.



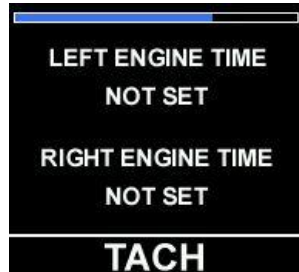
Press the top button once to move to the next display.

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2. Engine Time Display

Engine time **MUST** be set before the first flight as part of the installation and setup of the instrument.

The engine time screen will timeout and return to the default screen once the blue activity bar disappears.



Engine Time NOT Set



Engine Time – Normal Conditions

Press the top button to move to the next display or wait for the timeout period to expire.

3. Trend Graph



This screen provides a graphical display of left and right engine RPM.

RPM data is displayed with a miniature version of the bars as on the default screen and the actual RPM values.

The "Scan Interval" can be changed by pressing the bottom button.

To freeze the display, press the top button **ONCE**.

To continue displaying information in this mode, press the bottom button **ONCE**, OR, to return to the default screen, press the top button once.

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4. Other Options

To display the instrument serial number and core information press and hold the bottom button when in the default screen.

WARNING

All engine operations are to be performed in accordance with the specific instructions pertaining to your aircraft, including those provided by the engine manufacturer. The TM202x series instruments are only parameter reporting devices which can assist in engine management when used in conjunction with these instructions.

All TM202x products are certified as primary replacements, within the limits as described above, or for secondary use as desired.

TM202X Product Specifications

Certification / Compliance

| | |
|---------------|--|
| TSO | C49b |
| Environmental | DO-160F A1CAASXXXXXXXXZBXXBBBCSBA1C11XXAX |
| Software | DO-178B |

DC Power Source

| | |
|------------------------|-------------|
| Input voltage | 6 to 36 VDC |
| Power consumption | 100mA |
| Load dump tolerance | +60V |
| Direct spike tolerance | +/- 60V |
| Cable spike tolerance | > +/- 1KV |

Operating Temperature

| | |
|----------------------------|----------------|
| Constant operating | -15°C to +55°C |
| Short term operating (1hr) | -40°C to +70°C |
| Storage | -55°C to +85°C |

Signal Input

0-5V pulse width modulated square wave

Display

RPM 0 - 9000

Accuracy

AS404C +/- 1 RPM

Display

Sunlight readable LCD
80/80/80/80 Degree viewing angle

Annunciator Output

100mA sink with reverse EMF protection

Interface Connector

DB-25

Software Functionality

| | |
|-------------|--|
| Primary | Engine RPM – Left and Right |
| Engine Time | Display of engine time – Left and Right |
| Trend Graph | Graphic display of engine RPM – Left and Right |

Dimensions

2.45" X 2.45" X 0.96"

Weight (excluding harness)

4.05 oz

Finish

Black anodized 6061 aluminum