

ENGINE MONITORS



GRAPHIC ENGINE MONITOR (SINGLE ENGINE)

Graphic Engine Monitor - STC'd Single Engine - Normally Aspirated 4 or 6 Cylinder. The GEM 602 is designed for use with all 4 or 6 cylinder piston engine aircraft. The instrument graphically displays up to 12 critical engine temperatures in a single instrument in an easy-to-read bar-graph format on a brilliant plasma display. **Features:** Displays up to 12 EGT, CHT temperatures. Lean Mode: is used during cruise to identify the leanest cylinder. Lean Mode can be entered at any time. The GEM's microprocessor analyzes EGT temperatures and indicates the leanest cylinder by blinking the appropriate column. Monitor Mode: each time that Monitor Mode is entered, the GEM microprocessor stores the EGT values into memory. Should any cylinder's EGT subsequently rise 50°F or more, the corresponding column will begin blinking to signal change in fuel flow or ignition. Test Mode: is designed into the GEM system should trouble be suspected. Entering the test Mode causes each bar column to stack up, a bar at a time, until fully illuminated, then blank. Each successive column until all six have been done. Automatic selection of the correct number of cylinders. Automatic intensity control for all lighting conditions. Whether you fly a home-built, war bird, or latest model aircraft, the GEM 602 provides a complete picture of EGT and CHT at a glance.

| P/N | Model | Description | Price |
|----------|--------|-------------------------------------|-------|
| 10-18805 | GEM603 | Single Engine, 4 cyl., turbocharged | . |
| 10-18810 | GEM603 | Single Engine, 6 cyl., turbocharged | . |

GEM PROBES

GEM 602 Wire Harness P/N 10-03576
 #2870 EGT Probe /ea.
 #2852 CHT Spring Probe /ea.
 #2853 CHT Gasket Probe /ea.
 #2855 CHT Adapter Probe* /ea.
 #2856 CHT Probe** /ea.
 *Use with factory spring probe **Use with 3/8 x 24 threaded factory probe



3 UNIVERSAL ENGINE MONITOR

The E3 universal engine monitor combines in one compact 2.25" format instrument all that is needed to monitor most smaller aircraft engines from two-stroke ultralight engines to medium sized four strokes such as from Rotax, Continental and Lycoming. Also most automotive engine conversions can benefit from the use of the E3 engine monitor. P/N 11-06442

INSIGHT G3 GRAPHIC ENGINE MONITOR



TC CHT PRIMARY STC PENDING - Single Engine - Normally Aspirated or Turbo-Charged with SD Data Card for 4, 6 or 9 Cylinder. **ALL NEW G3 UNITS ARE FACTORY CALIBRATED.** Combines all the ergonomic advantages of the original GEM 602/603/610 with greatly enhanced capabilities including: **Features:** • Bright bold LCD color display with many screens, and dozens of new functions • 100 times the power of the previous generation • 100 thousand times the data log space (Never run out of space) • Engine vibration measurement and analysis • Specialized analysis for propeller balance, turbulence and even landing shock • Integrates, logs data from G3, TAS Air Data and GPS for the complete picture • SD Card stores all engine, air, winds aloft and fuel data (No more lost data) • Entire aircraft life history directly on SD card in PC compatible form • Specific functionality for safe Lean of Peak operation with no detonation • Oil Temperature and Pressure • Manifold Pressure, Fuel Flow and RPM • OAT • Carburetor and Alternator Temperature • Fully compatible with GEM 602, 603 and 610 Installations (Easy Upgrade) • Buss Voltage

G3 Systems (4 Cylinder) P/N 10-03195
 G3 Systems (6 Cylinder) P/N 10-03196
Upgrade from GEM 602, 603, 610 to G3
 4 Cylinder Upgrade P/N 10-03198
 6 Cylinder Upgrade P/N 10-03197



INSIGHT TRUE FLOW 500

A new concept in fuel flow computers, True Flow 500 is designed to give pilots a simple and efficient way of reading fuel information directly on the GPS fuel pages. Eliminates tedious installation and set-up procedure and set-up procedures that are required for other fuel flow computers. Install True Flow 500 on top of the engine and connect fuel lines, GPS power, ground and RS232 RX input. Works on fuel injected or carbureted engines, but not on carbureted engines with a fuel return line. Many other STC's for installation on certificated aircraft. P/N 11-01913

GEMINI 1200 SYSTEM (TWIN ENGINE)



Graphic Engine Monitor - TC & FAA PRIMARY STC PENDING
 Twin Engine - Normally Aspirated or Turbo-Charged with Data logging for 2, 4, 6, 7, 8 and 9 Cylinder.
 Designed for twins, the GEMINI 1200 has all of the same advanced features as the GEM 610.

ALL NEW 1200 UNITS ARE FACTORY CALIBRATED.
Features:•Display up to 30 temperatures. •IAT Temperature. •Side-by-side display of Left/Right or Front/Rear Engines. •4 digit readout of any EGT, CHT, TIT, OAT and IAT.

| P/N | Model | Description | Price |
|----------|----------|----------------------------------|-------|
| 10-18815 | GEMINI | Twin Engine, 4 cyl., normal asp. | . |
| 10-18820 | GEMINI | Twin engine, 6 cyl., normal asp. | . |
| 10-18825 | GEMINI | Twin Engine, 4 cyl., turbo (1T) | . |
| 10-18830 | GEMINI | Twin Engine, 4 cyl., turbo (2T) | . |
| 10-18835 | GEMINI | Twin Engine, 6 cyl., turbo (1T) | . |
| 10-18840 | GEMINI | Twin Engine, 6 cyl., turbo (2T) | . |
| 10-02142 | 1200-021 | Insight OAT Probe | . |

GEM 610/1200 NOW WITH PRIMARY INSTRUMENT REPLACEMENT STC

GEM-610 SYSTEMS



Graphic Engine Monitor - TC & FAA PRIMARY STC PENDING Single Engine - Normally Aspirated or Turbo-Charged with Data logging for 4 or 6 Cylinder. ALL NEW GEM 610 UNITS ARE FACTORY CALIBRATED.
Features:•Selectable Fahrenheit/Celsius Temperatures.

•Normalization Mode: allows easy observation of any change in EGT during cruise flight. The GEM will memorize current EGT indications and electronically adjust bar graph display to align all EGT columns with the "Reference Asterisk". Any change in EGT will instantly obvious. •Lean Mode: is used during cruise to identify the leanest cylinder. Lean Mode can be entered at any time. The GEM's microprocessor analyzes EGT temperatures and indicates the leanest cylinder by blinking the appropriate column. •Monitor Mode: GEM continuously indicates actual EGT pattern in optimum resolution. Real CHT shown for each cylinder. •Trend Indicators. •OAT Sensing. •Dual TIT Annunciators. •Soft Hobbs Meter/Clock Calendar. •Automatic Data Logging of Vital Engine Temperatures into non-volatile memory. •Wireless Infrared Interface •Software configurable. •Back-lit CHT scale. •Automatic self-test at start-up. •More than a decade after the GEM revolutionized engine monitoring, GEM 610 is "The Next Generation" in engine monitoring and diagnostic systems. Specifications: •Size: 2-1/4" panel mount. •Weight installed is 3 lbs. •Power: 10-30VDC.

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| Single Engine 4-cyl. GEM-610..... | P/N 10-18845 |
| Single Engine 6-cyl. GEM-610..... | P/N 10-18846 |
| Single Engine 4-cyl. turbo GEM-610 | P/N 10-18805 |
| Single Engine 6-cyl. turbo GEM-610 | P/N 10-18810 |

J.P. INSTRUMENTS FUEL SCAN -450



Provides continuous display of fuel burned in gal/hour (liter and lbs. available on special order). Also provides total fuel used, fuel remaining, endurance in hours and minutes, fuel re-quired to next waypoint, fuel reserve at next waypoint, and nautical miles/gal. Que lights indicate which function is being displayed in lower display. Auto button starts an automatic scan of the functions. Step button can index info forward or backward. Will mate with an old Shadin or Hoskins system, and will talk to a panel mount or handheld GPS. Fits in standard 2.25" instrument hole and weighs only 5oz. Depth: 1.5". Complete with instrument harness and a Flow Scan 201 or 231 transducer. Ideal for experimental aircraft. FuelScan 450 is FAA approved for certified aircraft. This comes with a Fuel Pump Transducer. The Components Included with FS450: • FS 450 unit • 450 Fuel Flow Harness • Aeroquip Red Firesleeve • 201 Xducer • Install Manual with Pilots Guide, STC, and FMS

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|---|-------------------|
| FS 450 Scanner Fuel Pump..... | P/N 10-00135..... |
| Fuel Scan 450 Gravity Fed+ | P/N 10-00134..... |
| FS-450R Fuel Scan Rotax (2 Transducers for aircraft with return fuel line)..... | P/N 10-00266..... |
| FS450-M Twin Engine..... | P/N 10-00735..... |
| FS-450M-3 3-1/8" Twin Engine | P/N 10-03692..... |

CALL FOR SPECIAL PRICE!

EDM 711



Primary version of EDM 700/800 system to replace original engine gauges. FAA approved. 700/800 one function included. Primary options are TIT oil Temperature, and CHT.

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|---------------------------------------|--------------------|
| EDM711-4C (configured as 700) | P/N 10-00641 |
| EDM711-6C (configured as 700) | P/N 10-00642 |
| EDM711-4C (configured as 800) | P/N 10-00643 |
| EDM711-6C (configured as 800) | P/N 10-03858 |
| Add primary functions to EDM711 | P/N 10-00647 |
| Add Fuel Flow to EDM711 | P/N 10-00650 |