

MGL AVIONICS

MGL IEFIS PACKAGES



About iEFIS Lite Series:

The iEFIS Lite series from MGL Avionics is set to revolutionize the small airplane instrument panel. If just a single EFIS screen is required in your Experimental airplane, the iEFIS Lite offers everything needed. The iEFIS Lite is a stand-alone system unlike our standard iEFIS systems

where you can have multiple, joined panels in a complex infrastructure. The MGL Lite Series includes the Discovery-Lite 7", Explorer-Lite 8.5", and the Challenger-Lite 10.4", all with Touchscreen EFIS GPS Antenna.

About iEFIS Regular Series:

The iEFIS is a comprehensive flight, engine and navigation instrument designed for Experimental and Light Sport aircraft. It is the next generation EFIS system utilizing a custom developed, pressure sensitive, sunlight readable touchscreen that can also be operated using gloves. iEFIS combines the undeniable advantages of simplified operation that a touchscreen can offer with rich traditional controls that are equally indispensable in the cockpit environment. The pressure sensitive touchscreen operates much like a tactile button preventing false activation when touching the screen in turbulent conditions. The MGL Regular Series includes the iEFIS Explorer and Challenger.

| Worksheet Steps | Description | Part No. | Price |
|--------------------------|-----------------------|----------|-------------------|
| Select iEFIS | Discovery-Lite | 11-16867 | \$3,836.00 |
| | Explorer-Lite | 11-16868 | \$4,029.00 |
| | Challenger-Lite | 11-16869 | \$4,927.00 |
| Select Regular iEFIS | Explorer | 11-16870 | \$5,163.00 |
| | Challenger | 11-16871 | \$5,644.00 |
| Select Engine Monitoring | Lycoming (4-Cylinder) | 11-16872 | \$767.00 |
| | Lycoming (6-Cylinder) | 11-16873 | \$977.00 |
| Select V16 Radio | V16 & Razor (3 1/8") | 11-16874 | \$1,684.00 |
| | V16 & Vega (2 1/4") | 11-16875 | \$1,524.00 |

IEFIS LITE WITH GPS ANTENNA PACKAGE INCLUDES

| Description |
|---|
| iEFIS Discover-Lite, Explorer-Lite, or Challenger |
| SP-6 Advanced Magnetometer Sensor Package (Compass) |
| RDAC XF, 12 Thermocouple Channels |
| Harness- iEFIS-Lite Power/CAN/ RS-232 Harness |
| Harness, CAN Bus Harness Kit for Single Device |
| Harness- RDAC XF with CAN Bus |
| OAT Probe- Aluminum |

IEFIS EXPLORER & CHALLENGER TOUCHSCREEN PACKAGE INCLUDES

| Description |
|--|
| Regular iEFIS Explorer or Challenger |
| iBox Normal Speed ASI (30-250 mph) |
| SP-6 Advanced Magnetometer Sensor Package (Compass) |
| SP-7 Advanced Attitude Sensor Package (Horizon) |
| RDAC-XF MAP, 12 Thermocouple Channels & MAP |
| Harness- iBox CAN Bus Harness for iBox and 2 Devices |
| Harness- RDAC XF with CAN Bus |

SELECTING AN ENGINE MONITORING PACKAGE INCLUDES

| Description | Qty. |
|---|------|
| Lycoming 4-Cylinder: | |
| CHT, bayonet-style 3/8"-24, Type-K | 4 |
| Type-K Thermocouple Extension Cable, per foot, with splice kits | 20 |
| Type-K EGT Thermocouple, Cramp-Type, Small 1 1/4" dia. Exhaust | 4 |
| Westach Oil Temp Sender 5/8-18 UNF Thread (Lyc/Cont.) | 1 |
| VDO 360-004 Oil Pressure Sender, 145 PSI, 1/8-27 NPT | 1 |
| FT-60 Red Cube Fuel Flow Transducer (0.6-70 GPH) | |
| *Note: Never use RTV or similar sealants when installing fuel system components | 1 |
| UMA T149-1 Tachometer pickup for Slick Mag | 1 |

| Description | Qty. |
|---|------|
| Lycoming 6-Cylinder: | |
| CHT, bayonet-style 3/8"-24, Type-K | 6 |
| Type-K Thermocouple Extension Cable, per foot, with splice kits | 25 |
| Type-K EGT Thermocouple, Cramp-Type, Small 1 1/4" dia. Exhaust | 6 |
| Westach Oil Temp Sender 5/8-18 UNF Thread (Lyc/Cont.) | 1 |
| VDO 360-004 Oil Pressure Sender, 145 PSI, 1/8-27 NPT | 1 |
| FT-60 Red Cube Fuel Flow Transducer (0.6-70 GPH) | |
| *Note: Never use RTV or similar sealants when installing fuel system components | 1 |
| UMA T149-1 Tachometer pickup for Slick Mag | 1 |

V16 RADIO PACKAGES INCLUDE:

| Description |
|--|
| V16 and Razor (3 1/8") or V16 and Vega (2 1/4") |
| V16 Remote 10 Watt VHF Aviation Transceiver (Compass) |
| Vega VHF Control Head (2 1/4" Display) |
| Harness-MGL V16 Com & Razor/Vega Control Head-Standard 2-place |
| RG 400 Coax Cable for V16/Sandia/EchoUAT, 1 BNC & 1 SMA-8ft |
| Harness-VHF Comm Antenna- Delta Pop Red Tall- Bent |

MGL IEFIS EXPLORER



The Explorer EFIS introduces a custom developed touch pressure sensitive LCD screen aimed exclusively at the small aircraft application. With the ability to accurately measure contact force in all conditions, it becomes possible to utilize the user interface advantages of a touch screen even in turbulent flight.

Unlike conventional touch screen technology, MGL's "tap screen" can be used with gloves, is completely unaffected by sunlight and even uses a polarized anti reflective and anti glare film. The tap screen uses only high quality optical glass in its construction and thus has no negative effects on the image quality, even in difficult light conditions. The tap screen is further qualified for zero pressure conditions such as experienced in space and is not affected by sudden, large pressure changes. Recognizing that some operations can never be fully replaced by a touch screen, the Explorer adds no less than 5 "clickable"

rotary controls which assume functions depending on current need plus adds conventional, tactile buttons for quick access to often used functions regardless of what appears on the screen.

| Description | Part No. | Price |
|---|----------|-------------------|
| MGL IEFIS Explorer 8.5" Touchscreen | 11-10816 | \$2,500.00 |
| Accessories | | |
| Description | Part No. | Price |
| MGL IBOX | 11-10826 | \$1,150.00 |
| MGL IEFIS Explorer Harness Kit | 11-10827 | \$359.90 |
| Ibox Harness for SP-6/SP-7 | 11-11230 | \$270.00 |
| Servo Harness for Two Devices | 11-11231 | \$190.00 |
| RDAC XF with Can Bus Harness | 11-11232 | \$90.00 |
| EI FT 60 Fuel Flow Transducer For < 350hp / Fuel Pump | 10-01196 | \$194.00 |
| Westach Temp Probe 5/8-18 THD 1" Tip 4 Lead 399s9 Non TSO | 10-01236 | \$63.75 |
| MGL CHT Bayonet 3/8"-24 TYPE K | 11-05565 | \$35.00 |
| MGL EGT Thermocouple Clamp Small | 11-07842 | \$50.00 |
| VDO Oil Pressure Sender 150PSI | 11-08066 | \$45.00 |
| MGL Tach Pick Up For Slick Mag | 11-08334 | \$122.75 |
| MGL SP-7 Stnd Attitude Sensor | 11-09743 | \$700.00 |
| MGL SP-6 Magnetometer Sensor | 11-09744 | \$260.00 |
| MGL RDAC XF MAP 12 Thermocouple Channels With Map | 11-10676 | \$375.00 |

MGL RDAC OPTIONS

| | | | |
|---|--|----------|-----------------|
| RDAC-XF | MGL RDAC XF 12 Thermocouple Cannels | 11-10674 | \$315.00 |
| RDAC-XF MAP | MGL RDAC XF 12 Thermocouple Cannels with Map | 11-10676 | \$375.00 |
| RDAC-CAN | MGL RDAC for Rotax 912IS Engine | 11-11296 | \$215.00 |
| AHRS ATTITUDE / HEADING SENSORS | | | |
| SP-6 | SP-6 Magnetometer Sensor (Compass) | 11-09744 | \$260.00 |
| SP-7 | SP-7 Standard Attitude Sensor (Horizon) | 11-09743 | \$700.00 |
| STRATOMASTER 2-1/4" INFINITY SINGLES | | | |
| ALT-1 | Encoding Altimeter | 11-15988 | \$375.00 |
| ASV-1 | Encoding Altimeter / Airspeed Indicator | 11-15990 | \$425.00 |
| STRATOMASTER 3-1/8" VELOCITY SINGLES | | | |
| ASV-2 | Altimeter / Airspeed Indicator | 11-16586 | \$455.00 |
| FF-5 | Fuel Computer | 11-16587 | \$395.00 |
| RPM-2 | RPM Indicator | 11-16591 | \$325.00 |

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