

# 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	---
	Explorer-Lite	11-16868	---
	Challenger-Lite	11-16869	---
Select Regular iEFIS	Explorer	11-16870	---
	Challenger	11-16871	---
Select Engine Monitoring	Lycoming (4-Cylinder)	11-16872	---
	Lycoming (6-Cylinder)	11-16873	---
Select V16 Radio	V16 & Razor (3 1/8")	11-16874	---
	V16 & Vega (2 1/4")	11-16875	---

### 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	---
<b>Accessories</b>		
Description	Part No.	Price
MGL IBOX	11-10826	---
MGL IEFIS Explorer Harness Kit	11-10827	---
Ibox Harness for SP-6/SP-7	11-11230	---
Servo Harness for Two Devices	11-11231	---
RDAC XF with Can Bus Harness	11-11232	---
EI FT 60 Fuel Flow Transducer For < 350hp / Fuel Pump	10-01196	---
Westach Temp Probe 5/8-18 THD 1" Tip 4 Lead 399s9 Non TSO	10-01236	---
MGL CHT Bayonet 3/8"-24 TYPE K	11-05565	---
MGL EGT Thermocouple Clamp Small	11-07842	---
VDO Oil Pressure Sender 150PSI	11-08066	---
MGL Tach Pick Up For Slick Mag	11-08334	---
MGL SP-7 Stnd Attitude Sensor	11-09743	---
MGL SP-6 Magnetometer Sensor	11-09744	---
MGL RDAC XF MAP 12 Thermocouple Channels With Map	11-10676	---

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