



FlightDEK-D180

Combination EFIS & Engine Monitor



DYNON AVIONICS

Innovative Avionics for Experimental Aircraft

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FlightDEK-D180 Combination EFIS/Engine Monitor

Dynon's FlightDEK-D180 integrates its best-selling EFIS and EMS (Engine Monitor System) electronics with a larger 7" diagonal, sunlight readable, color LCD. This instrument boasts a stunning 854 x 480 pixel display that delivers more than three times the resolution offered by competitive units.

FlightDEK-D180 provides 10 primary flight instruments in combination with a possible 16 engine gauges. Other key capabilities include a built-in altitude encoder and optional Angle of Attack for added safety. A simple softkey menu system facilitates paging through various screens and activating key functions. Audible and visual alarms are immediately annunciated anytime user-specified limits are exceeded.

Specifications

Instruments Included

Flight: Attitude, Altimeter, Airspeed, Vertical Speed, Gyro-Stabilized Magnetic Compass, Turn Coordinator/Ball, Turn Rate, Clock, Up/Down Timer, G-Meter, Voltmeter, Altitude Encoder, Angle of Attack with optional Dynon AOA probe.

Engine: EGT (6), CHT (6), Fuel Level (2), Fuel Pressure, RPM (2), Manifold Pressure, Oil Temperature, Oil Pressure, Amps, Volts, General Purpose (3 - for either OAT, Fuel Level, Coolant Temperature & Pressure, Carburetor Temperature), Contact Inputs (2).

Mechanical

Size: 6.95" wide x 4.90" tall x 4.51" deep
(177 x 125 x 115 mm)

Mounting: Mounting tray included to facilitate front removal

Weight: 3 lb. (1.36 kg)
3 lb. 6 oz. with internal battery option (1.59 kg)

Power

Voltage: 10 - 30 Vdc

Current: 14 Watts normal operation
26 Watts (max) if optional internal battery is charging

Screen

Type: AMLCD, TFT (Thin Film Transistor)

Backlight: 0.8-400 nit, user-adjustable

Size: 7.0" diagonal (178 mm)

Resolution: 854 x 480 color pixels

Measurement Parameters

Airspeed: 30 - 325 knots indicated
(35 - 374 mph)

Altitude: -1200 to 30,000 Feet
(-366 to 9144 m)

Attitude: Fully aerobatic; automatically recovers from any excursions exceeding 150°/second roll, pitch and yaw.

G-meter: -10G's to +10G's

Voltmeter: 10 to 30 Vdc

OAT: -22° to 149° F (-30° to 65° C) (optional)

Timer: 10 Hour Up - 10 Hour Down

Connections

Wiring: Two D-25 & One D-37 pin male connectors

Plumbing: 1/8" NPT (female) each for pitot, static and angle of attack

The class-leading LCD affords split-screen partitioning to seamlessly blend primary flight instruments with engine parameters or other key data panels. Three types of split-screen panels allow pilots to view real-time Engine Data, Checklists, or Aviation Data all while never leaving the primary EFIS instruments behind.

The price includes a mounting tray, remote compass module and USB-serial converter. Engine probe packages supporting a variety of engines are available as well as other accessories and options that further extend the D180's capabilities. A key benefit that Dynon offers is free lifetime software updates for all its products. These may be downloaded from www.dynonavionics.com anytime updates are available.

Split Screen Examples



EFIS & Engine Data

Both functions may be presented as a dedicated full screen or in one of these split screen modes.



Additional pages are available that present timers, fuel computer and other engine related functions (not shown here). Pilots can easily page through displays via hotkey functions.



Checklist or Aviation Data *User-defined*

Options

- Engine Monitor Packages and individual probes
- Angle of Attack Pitot
- Internal Li-Ion Backup Battery
- Outside Air Temperature Probe to calculate density altitude & true airspeed in real time
- Primary Instrument Wiring Harness
- Encoder Converter for transponders with gray code interface