

Features

- Engine and/or Systems Monitor
- High-bright 3.5" LCD color display (320 x 240)
- Designed for the 3 1/8" instrument form-factor
- Four soft-key buttons to navigate pages and menus
- Front loading USB slot for removable USB disk
- Direct acquisition of measurements via:
 - one fuel flow type sensor
 - one pressure (4-20mA) sensor
 - one analog voltage (0-30V) input
 - two additional frequency/discreet inputs
- Indirect acquisition of measurements over CAN bus
- Sharing of information via:
 - CAN bus interface
 - RS232 interface



Description

VRX multi-function displays such as the VRD-10 are generally used as dedicated cockpit engine monitors when combined with any of our engine data gathering capable units (EIU, TSLM, TSM).

The VRD-10 can directly read sensors for fuel flow, fuel pressure and more, usually to supplement TSM or TSLM parameters or as a standalone fuel flow indicator and computer.

VRX displays provide systems monitoring ability being able to integrate with other VR Avionics units such as our PDC or FSM. It also provides parameters to EFIS screens such as the ones from Advanced Flight Systems.

The VRD-10 is compact (fits a standard 3.125" hole) yet it presents the four primary engine gauges larger than most similar dedicated turbine engine monitors. It's small size and panel footprint enables it to consume very little space and makes it easy to plan for and fit into almost any instrument panel. VRD-10's can be stacked together side-by-side or employed apart in tandem-type (front-rear) cockpits.

From the outset our school of thought have been to make it easy and inexpensive to obtain redundancy for engine monitoring. Redundancy have become a concern of late as previously separate gauges are being integrated into single monitors – one failure can leave you nothing. Our VRX displays and related (EIU, TSLM, TSM) units allow the user various options to re-introduce redundancy for that added peace of mind.

The VRD-10 has a high-bright 3.5" color LCD for the presentation of instrumentation and also four soft-key buttons for quick navigation through pages and menus. It is further equipped with a USB slot that allows a removable USB disk to be inserted for easy firmware updates, data logging and retrieval.

Pin-outs (male 15-pin d-sub)

PINS	DIR	for M601	DESCRIPTION
1	IN	POWER	AIRCRAFT POWER
9	GND	GROUND	AIRCRAFT GROUND
15	OUT	+10V OUT	POWER OUTPUT FOR EXTERNAL SENSOR (FUEL FLOW)
14	IN	F-IN	FREQUENCY / TOTALIZING INPUT (FUEL FLOW)
6	IN	P-IN	PRESSURE SENSOR (4-20mA TRANSDUCER)
2	IN	A-IN	ANALOG VOLTAGE INPUT (0-30 VDC)
7	IN	F/D-IN1	FREQUENCY / DISCREET INPUT #1
8	IN	F/D-IN2	FREQUENCY / DISCREET INPUT #2
3	IN	RX-232	RS-232 RECEIVE / INPUT
10	OUT	TX-232	RS-232 TRANSMIT / OUTPUT
4,11	I/O	CAN-H	CAN HIGH LINE OF CAN BUS
5,12	I/O	CAN-L	CAN LOW LINE OF CANBUS
13	I/O	CAN-T	CAN TERMINATION LINE OF CAN BUS

Maximum Ratings

1	POWER SUPPLY VOLTAGE RANGE	7 ... 32 VDC
2	STORAGE TEMPERTURE	-40 TO +90 °C
3	OPERATING TEMPERTURE	-30 TO +85 °C

General Specifications

4	DIMENSIONS	80.5 x 80.5 x 23.9 mm
5	WEIGHT	140 g

Electrical Characteristics

6	POWER CONSUMPTION (@ 28V)	50mA (typical)
7	POWER CONSUMPTION (@ 14V)	130mA (typical)

Unit Outline

