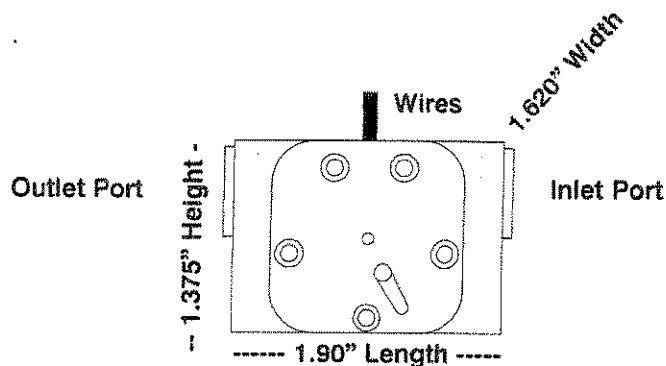


Electronics International

1030032

FT-60 Flow Transducer (Red Cube)



Warnings:

If the installation of the FT-60 transducer is not covered on an STC, you must perform the flow and pressure tests in FAA document A.C. 23-16 to insure safe and proper engine operation. Installation must conform to aircraft standards and practices (A.C. 43.13). DO NOT attempt to remove the screws in this transducer, doing so will cause the screws to break and render the FT-60 unsafe.

General:

The Red Cube FT-60 has considerably less pressure drop than other units on the market and a blocked rotor does not effect pressure drop. Also, the overall accuracy and linearity of Red Cube FT-60 is superior to most other flow transducers. The Red Cube FT-60's design vacates bubbles and is not nearly as susceptible to debris as other units on the market. Additionally, rotor pin to jewel clearances are matched on every unit resulting in a single K-factor for all units. Note: Installation configuration can effect the K-factor.

Identification:

The Red Cube FT-60 can be identified by its red anodized body and cube shape.

Electrical Interface:

The Red Cube FT-60 interfaces with the FP-5(L) and most other fuel flow instruments. The Red Cube FT-60 incorporates an open collector output, the same configuration as the Floscan unit.

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FT-60 Continued

Mechanical Interface:

The Red Cube FT-60 has 1/4" NPT ports. DO NOT EXCEED a torque of 25 ft. lbs. when installing fittings into the transducer. The Red Cube FT-60 should NOT be installed with the wires pointing DOWN (the best situation is with wires pointing UP). Also, the fuel line on the outlet port should not drop down after exiting the transducer. Both of these configurations can trap bubbles in the transducer causing jumpy readings. The inlet port, outlet port and flow direction are marked on the top of the Red Cube FT-60.

Specifications:

Model: FT-60 (Red Cube)

K-Factor: 68000 Pulses/Gal (installation configurations can effect the K-Factor) (use 680 when programming the K-Factor in the FP-5(L)).

Pressure Drop (with 6.0 Lbs/Gal fuel), (blocked or unblocked rotor) : 0.5PSI @ 28 Gal/Hr
2.0PSI @ 56 Gal/Hr

To Calculate Pressure Drop: $P = \frac{(\text{Flow})^2 \times Wf}{9573}$ P = Pressure Drop in PSI
Flow = Fuel Flow in Gal/Hr.
Wf = Weight of Fuel in Lbs/Gal

Fuel Flow Range: 0.6 to 70+ Gal/Hr.

Fuel Flow Over Range (with no damage to transducer): Unlimited

Linearity: +/- 1% over an engines normal operating range.

Repeatability: +/- 1/4%

Burst Pressure: 4000 psi minimum

Recommended Maximum Working Pressure: 1000 psi

Temperature Range: -65°C to 125°C

Weight: 5.26 Oz.

Life Expectancy: 10,000 Hrs. min.

FAA PMA'd and STC'd