



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 the 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.

The FT-60 is compatible with gasoline, Av gas, diesel, jet A, kerosene and any other fluid with similar optical characteristics.

Electrical Interface: The input (red power lead) will operate from 8 to 30 Volts. Typical supply current is 14 mA over the entire operating range. The FT-60 incorporates an open collector output (white lead). The output can operate from 0 to 30 Volts. Saturation voltage at a given sink current is 0.25 Volts (typical) at 4 mA and 0.7 Volts (max) at 10 mA. The output should be limited to 15 mA max. Recommended pull-up current is 1 mA. The output incorporates a two stage comparator that keeps the output waveform square, even at low flow rates.

Mechanical Interface: The Red Cube FT-60 has 1/4" Female NPT ports. DO NOT EXCEED a torque of 25 ft. lbs. when installing fittings into the transducer.

Specifications:

Model: FT-60 (Red Cube)

K-Factor: 68000 Pulses/Gal (installation configurations can effect the K-Factor)

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.

Repeatability: +/- 1/4%

Burst Pressure: 4000 psi minimum

Weight: 5.26 Oz.

FAA Approved (TSO'd, PMA'd and STC'd)

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

Maximum Working Pressure: 1000 PSI

Temperature Range: -65°C to 125°C

Life Expectancy: 10,000 Hrs. min.