

# FT-60 Transducer Installation Instructions

**These instructions are for use with  
Flight Data Systems FC-10 or AFP-30 only**

## Fuel Flow Transducer Notes

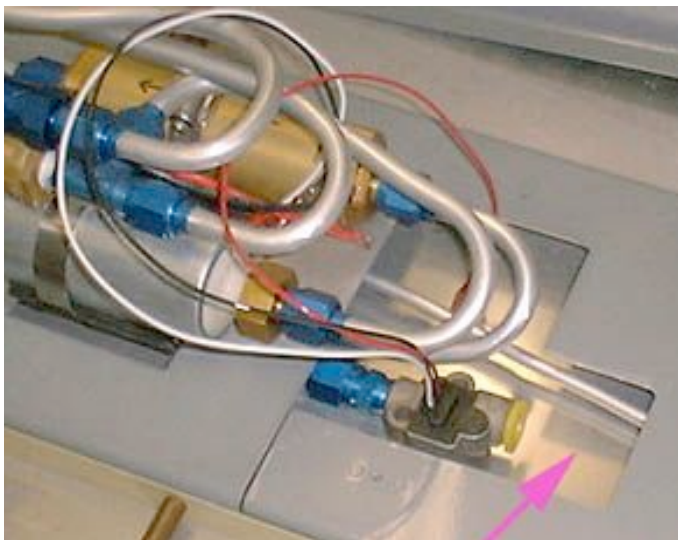
- **NEVER** blow through the transducer. Keep the yellow caps on until it is installed.
- The fuel flow transducer(s) should be installed in a straight section of your fuel line. (6 straight inches on each side is desirable).
- The fuel line should not drop down after exiting the transducer.
- The wires **MUST NOT** come out of the bottom of transducer. Wires pointing up is the best .
- When assembling fittings into the 1/4" NPT inlet and outlet ports do not exceed a **torque value of 25 ft.-lbs.**
- Do not use Teflon tape in an aircraft fuel system. Use "Fuel Lube/Ez Turn Lubricant"
- The transducer should be mounted down stream of a fuel filter.
- Do not attach the transducer directly to the engine to avoid excessive vibration.
- Do not mount the transducer near the exhaust systems or other hot engine components.
- If the transducer is in the engine compartment, it should be covered in fire sleeve to protect it from excessive heat.
- The transducer wires may be trimmed any desired length

## Possible Transducer Placement Locations:

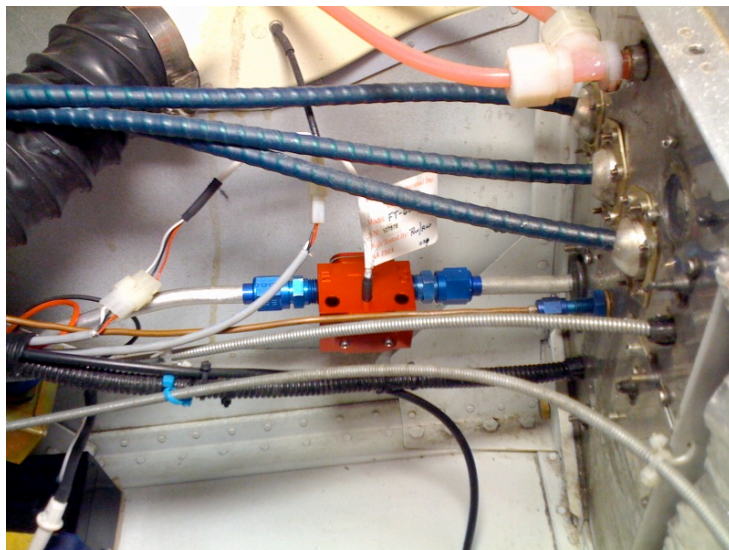
1. Between the auxiliary electric boost pump and the engines mechanical fuel pump.
2. Between fuel injection servo and the distribution block.
3. Between the Engine driven pump and the Carburetor

**Note:** If your engine is equipped with a fuel return line **from the carburetor** back to the fuel tank you will need to install two flow transducers. One in the feed line from the fuel pump to the carburetor and one in the return line from the carburetor back to the fuel tank. This applies to certain Continental engines and Rotax 912(ULS) and 914 engines.

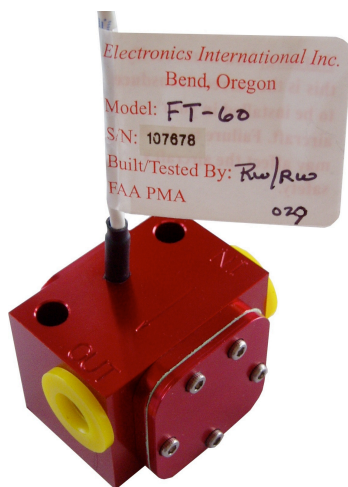
**Suggested Installation Hardware:** 2 Each, AN816-6D nipple, AN818-6D nut, AN819-6D sleeve. This will allow splicing of the transducer into 3/8" (-6) aluminum fuel line.



RV-7 Fuel Injected



RV-8 Carbureted



## EI FT-60 "Red Cube" Specifications:

Flow Range , Gasoline: 0.6 – 70+ GPH,  
Approximate K Factor (Pulses/Gallon):68,000  
Pressure Drop: 0.5 PSI @ 28 GPH, 2.0 PSI @ 56 GPH  
Repeatability +/- ¼ %  
Working Pressure: 100 PSI psi  
Temperature Range: -65° / 125°C  
Bearing Life Expectancy: 10,000 hr. min.  
Electrical Specifications:  
8-30 VDC between RED (+) wire and BLACK (-) wire. @ 14 mA