



FQI Probe Test Module

Fuel Quantity Indicator Probe Test Module

Features

- Complete fuel quantity system test solution
- Now fully integrated into the wing's electrical systems testing
- For use on all aircraft using FQI probes with integral diode rectification
- Fully automatic test reports
- Single probes or groups of probes
- Modular add-on to the MK Test System

Key Technical Characteristics

The system generates a RMS signal at voltage and frequency to suit the specific probe under test (typical values would be 20 V, 6 kHz). The rectified current output from the probe is measured and the capacitance value derived.

Capacitance range

0 to 120 pF (standard)
Extended range to 1000 pF available.

Accuracy

$\pm 0.1\%$ or ± 0.2 pF whichever is greater

As the preferred supplier of Automatic Test Systems to the Airbus Narrow Body wing production line, MK were tasked with supplying a STU (Systems Test Unit) that would test all wiring, components and systems installed in the Airbus wing. These include cabling, solenoids, relays, valves, lights, strobes, candensicon and finally the FQI (fuel quantity indicator probes).

Previously, the candensicon and fuel probe testing would be carried out using a dedicated OEM supplied test system.

This system required significant manual intervention and provided little or no automatic generation of test reports and/or formatting and analysis of measured values.

The MK FQI module allows the user to connect to the Probe/s via the in-wing wiring loom.

Test parameters and pass or fail criteria are held in the test programme.

MK can supply interface cables between the test system and aircraft interface connector.

A single test system performs the total wing systems test, offering exceptional time savings.

All test parameters and results are captured automatically, reported, and stored for future analysis.

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Recent FQI application references include supplying Airbus with a number of STUs (Systems Test Units) that would test all wiring, components and systems installed in the Airbus wing. These include cabling, solenoids, relays, valves, lights, strobes, candensicon and finally the FQI (Fuel Quantity Indicator probes).

The FQI Probe Test Module can be used also to test capacitive probes in

- Water
- Waste water
- Oil
- LOX (liquid Oxygen)

...in both commercial and military aircraft.



One of three MK System Test Units installed in Airbus.

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