

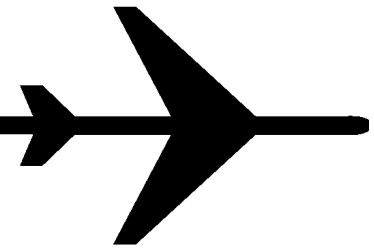
**BARFIELD INC**

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- **Barfield Inc.**
  - **Founded in 1945**
  - **Over 60 years experience**
  - **World wide customer base**

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- **Primary Product Lines**
  - **Air Data**
  - **Fuel Quantity**
  - **Turbine Temperature**

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- **DFQ40K Introduction**
  - **Compatible with all AC capacitance based Fuel Quantity Indicating Systems**
  - **Measures Resistance, Voltage, Current, Insulation, Capacitance & Distance To Fault**
  - **Simulates Capacitance & Current**

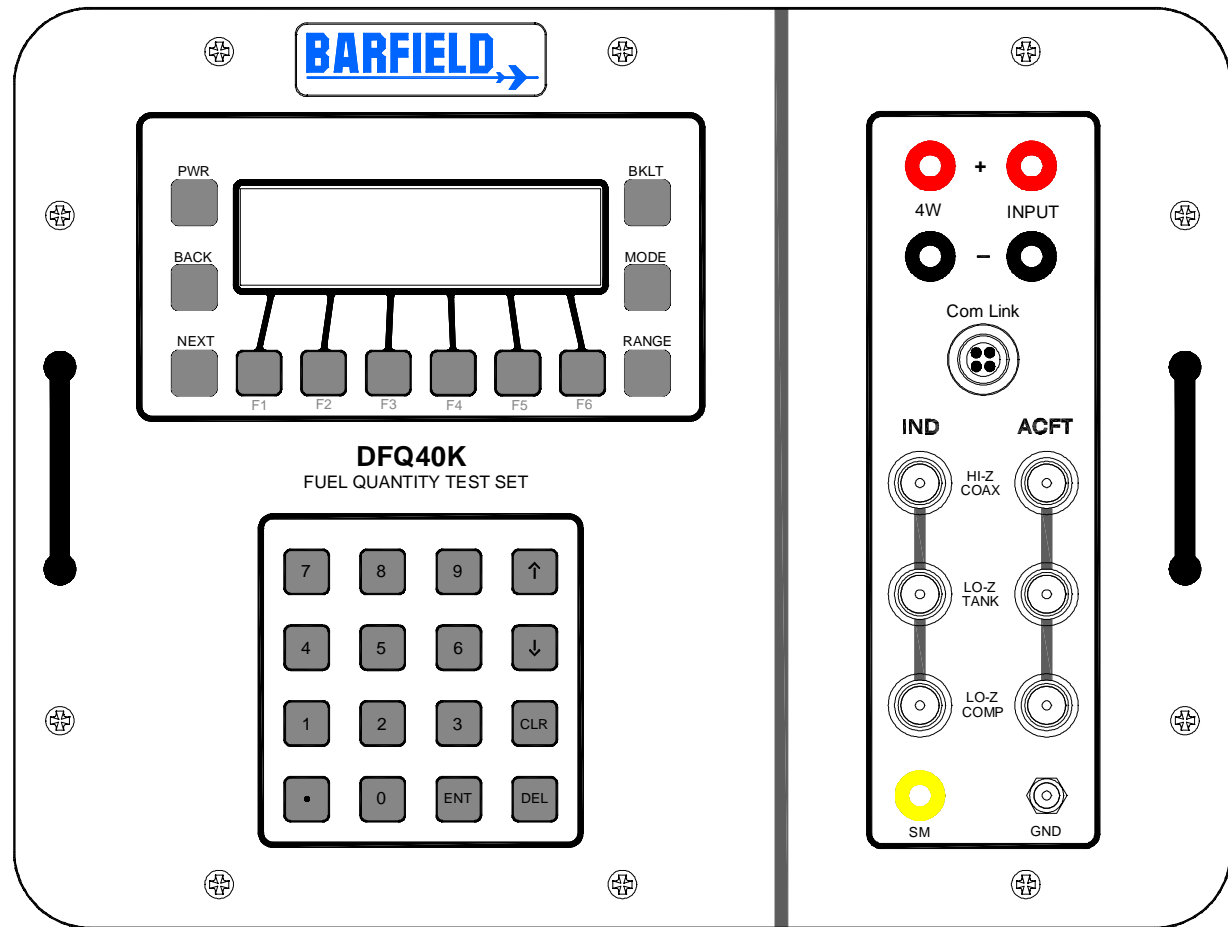
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- **DFQ40K Feature Set**
  - **Microprocessor Based**
  - **Multi-line Backlit Graphic Display**
  - **Softkey menu driven switching**
  - **Direct keypad entry of simulated capacitances**
  - **Use Barfield's new generation of Smart Cables**

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## DFQ40K Panel

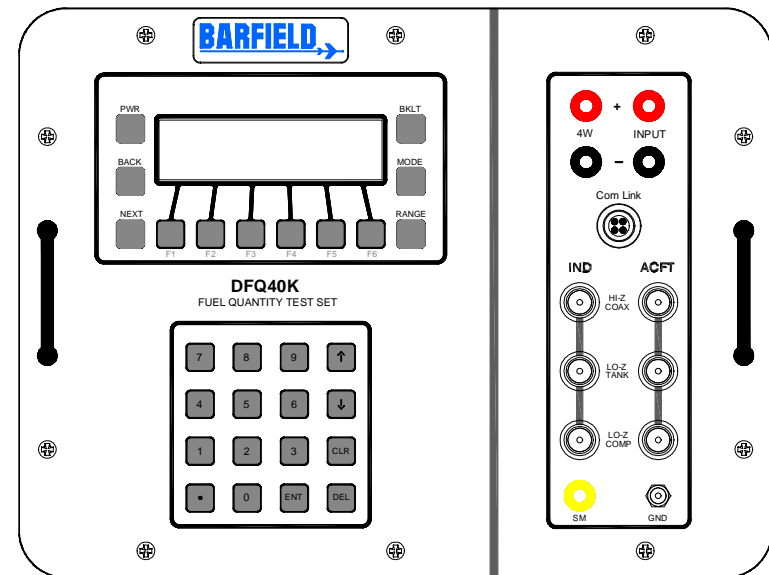


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- **DFQ40K Knobology**

- **Display/User Entry Module**
  - Select Functions
  - Present Measurements
- **Keypad**
  - Entering Excitation Freq
  - Entering Tank And Comp capacitances
- **Connections**
  - DVM / Smart Cable / Capacitance & Insulation



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- **DFQ40K Specifications**

- **MONITOR**

– FUNCTION:	RANGE:	ACCURACY:
– Resistance Measure	0.001 – 40,000 $\Omega$	0.1%
– VDC Measure	0.01 – 40.00VDC	0.1%
– Indicator Test	1 – 4,000 $\mu$ A	0.1%

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- **DFQ40K Specifications**

- **INSULATION**

– FUNCTION:	RANGE:	ACCURACY:
– Insulation Measure	0.01 – 4,000M $\Omega$	5%
– Insulation Measure	4.00 – 20.00G $\Omega$	10%

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- **DFQ40K Specifications**

- **CAPACITANCE**

– FUNCTION:	RANGE:	ACCURACY:
– Capacitance Measure	0.01 – 40,000pF	0.1%
– Distance To Fault	1 – 40,000pF	0.2%

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- **DFQ40K Specifications**

- **SIMULATION**

– <b>FUNCTION:</b>	<b>RANGE:</b>	<b>ACCURACY:</b>
– <b>Tank Cap Simulation</b>	<b>5.0 – 10,000pF</b>	<b>0.1%</b>
– <b>Comp Cap Simulation</b>	<b>5.0 – 1,000pF</b>	<b>0.1%</b>

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- **Smart Cable Introduction**
  - **Programmable aircraft interface harnesses**
  - **Provides for Automatic Testing of Aircraft Wiring and Tank Units**
  - **Provides for user entry of test data on PC**
  - **Storage of test data for trend analysis maintenance records**

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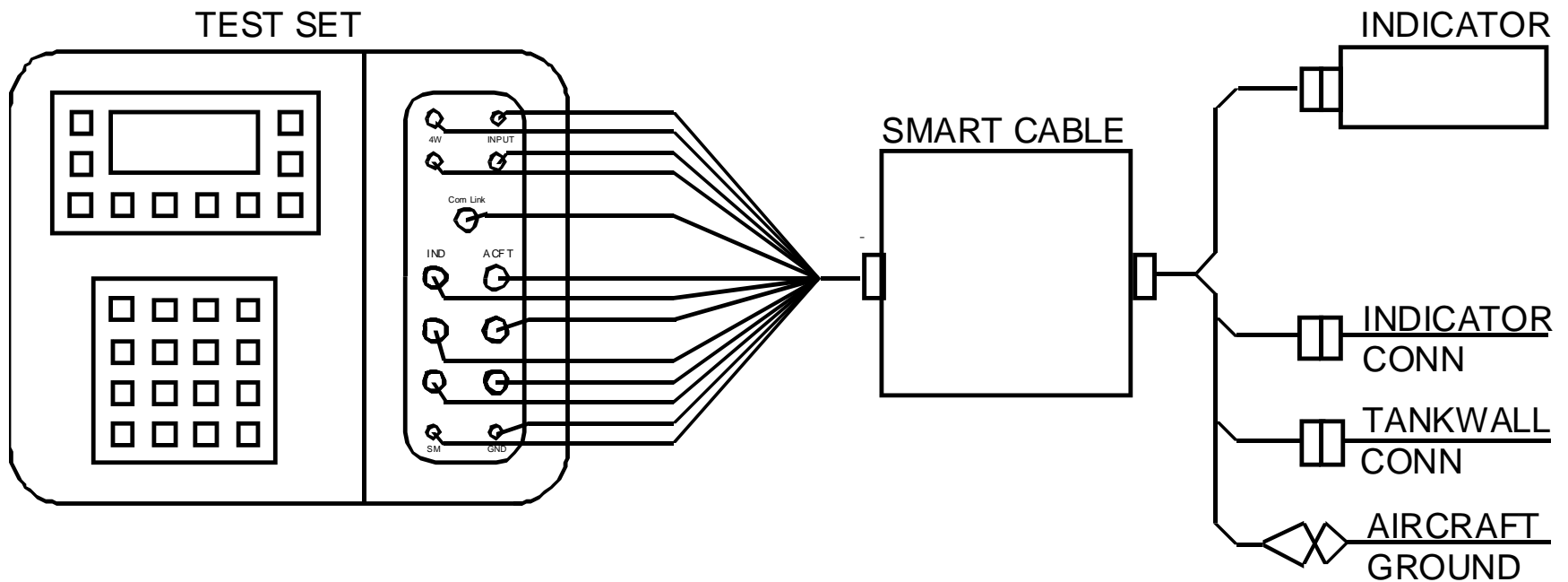
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- **Smart Cable Feature Set**
  - **Microprocessor Based**
  - **No mechanical switches**
  - **Multiple Automated Test Modes:  
Auto, Fault & Single Step**
  - **Full Manual Test Mode**

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- **Smart Cable Configuration**



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- **Smart Cable Knobology**
  - **Test Set Interface**
  - **PC Interface**
  - **System Select**
  - **Probe Select**
  - **Auto / Manual Select**
  - **Aircraft Interface**

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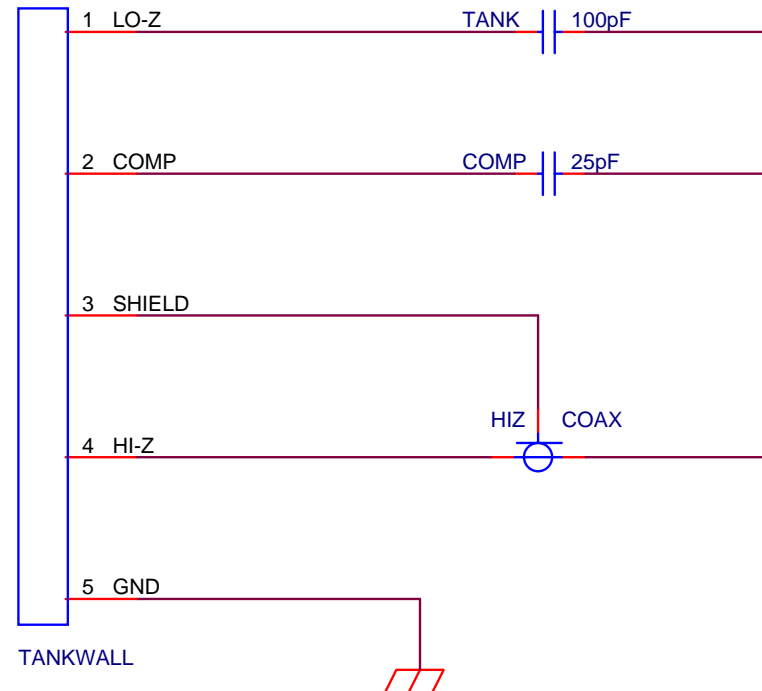
- **Typical FQIS testing scenarios**
  - **Examples**
  - **Man Hours**
  - **Human Error**
  - **Maintenance Records**

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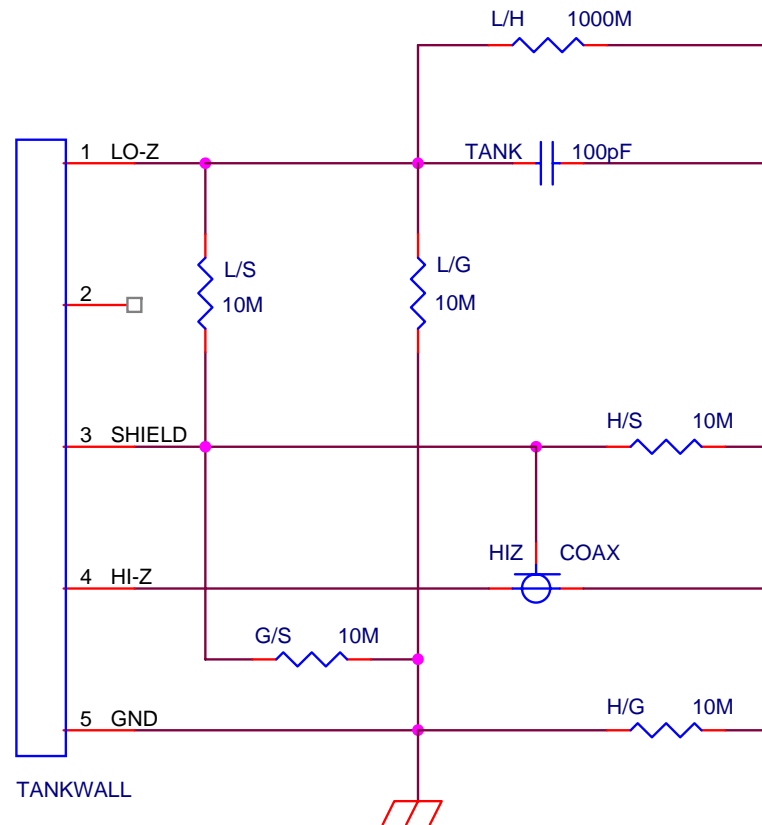
- **Example**

- **Simple System**
- **Tank & Comp Capacitance**



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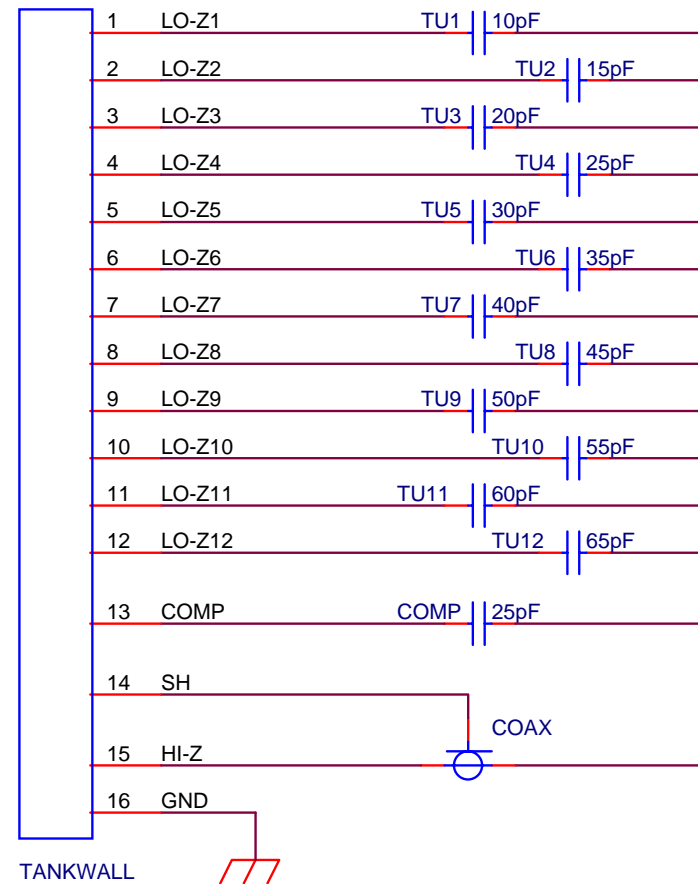
- **Example**
  - Tank Capacitance
  - Insulation Tests



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- **Example**

- **Typical Commercial Tank**
- **12 Tank Units**
- **1 Comp**



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- **Fault Localizer**
  - **Examples**
  - **Multiple modes of operation**

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- **Summary**

- **DFQ40K, Fuel Quantity Test Set**

- Microprocessor Based
    - Backlit Graphic Display
    - Menu Driven Switching

- **Smart Cable, Adapter Harness**

- Automated Testing
    - User Programmable
    - Multiple Test Modes

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- **Q & A Time**

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- **Contacts**

- **Sales**

- **Curtis Lamb Mgr Sales And Service 305-894-5400**

- **Technical**

- **Richard Floyd Project Engineer 770-599-9898**

- **Web Site**

- **[www.barfieldinc.com](http://www.barfieldinc.com)**

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