

AC Fuel Quantity Feature Comparison Chart

DISPLAY CHARACTERISTICS

	2548H	8000	AC2K	DFQ40K
Analog meter	S	S	-	-
Digital LCD	-	-	S	-
Graphic Backlit LCD	-	-	-	S

INSULATION MEASUREMENTS

	2548H	8000	AC2K	DFQ40K
Insulation from 50K to 50 MΩ	S	S	-	-
Insulation from 5 to 5,000 MΩ	S	S	-	-
Insulation from 0 to 2,000 MΩ	-	-	S	-
Insulation from 0 to 20,000 MΩ	-	-	-	S
3-terminal Megohmmeter	O	S	S	S

CAPACITANCE MEASUREMENTS

	2548H	8000	AC2K	DFQ40K
Capacitance Bridge	S	S	-	-
Auto measurement (No Nulling required)	-	-	S	S
Measurements from 0.1 to 999.9 pF	S	-	-	-
Measurements from 0.1 to 1,999.9 pF	-	-	S	-
Measurements from 0.1 to 7,999.9 pF	-	S	-	-
Measurements from 0.01 to 39,999 pF	-	-	-	S
Distance To Fault (DTF) as pF, Feet or Meters	-	-	-	S
Programmable Frequency	-	-	-	S

CAPACITANCE SIMULATION

	2548H	8000	AC2K	DFQ40K
Tank simulation from 0 to 999.9 pF	S	-	-	-
Tank simulation from 10 to 1,999.9 pF	-	-	S	-
Tank simulation from 0 to 7,999.9 pF	-	S	-	-
Tank simulation from 10 to 10,000 pF	-	-	-	S
Compensator simulation from 10 to 400 pF	S	S	S	-
Compensator simulation from 10 to 1,000 pF	-	-	-	S
Programmable Tank & Comp simulators	-	-	-	S

OPTIONS AND OTHER FEATURES

	2548H	8000	AC2K	DFQ40K
Low Resistance measurement from 0.000 to 40KΩ	-	-	-	S
DC Voltage measurement	-	-	-	S
Shield Monitor measurement	-	-	-	S
Inactivity power cutoff (Sleep mode)	-	-	S	S
Built-in capacitance & insulation self test circuits	-	-	S	S
115 VAC 50-400Hz, AC power pack	O	O*	O	-
230 VAC 50-400Hz, AC power pack	O	O*	O	-
28 VDC	-	-	-	O

S = Standard Feature O = Option - = Not available

* 115 V or 220 V power supply can be substituted for the standard battery pack.

AIRCRAFT MAINTENANCE REPAIR OVERHAUL & SUPPORT

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T A T G R O U P

Comparison of DFQ40K and 2548H Test Sets

- 1) DFQ40K is microprocessor based, softkey menu driven test set with a large multiline backlit graphics display
2548H is non-microprocessor based, mechanically switched, non-backlit, analog meter based device
- 2) DFQ40K has auto-ranging Low Resistance Measurement in 2 and 4-wire (40.000Ω, 400.00Ω, 4.0000KΩ, 40.000KΩ)
2548H has no capability
- 3) DFQ40K measures DC Voltage from 0.001 to 40.000VDC
2548H has no capability
- 4) DFQ40K can perform Shield Monitor measurement for aircraft which are so equipped
2548H has no capability
- 5) Insulation measurement is auto-ranging with 5x resolution and 4x range (40.00MΩ, 400.0MΩ, 4,000MΩ, 20GΩ)
2548H has 2 ranges (50MΩ, 5000MΩ)
- 6) Capacitance measurement is auto-ranging with 10x resolution and 40x range (400.00pF, 4,000.0pF, 40,000pF)
2548H has 1 range (999.9pF) and requires a manual nulling operation to measure capacitance
- 7) DFQ40K has Distance To Fault (DTF) feature with units of pF, feet or meters to help locate HI-Z wiring problems
2548H has no capability
- 8) DFQ40K has a direct keypad entry for setting Tank and Comp capacitance simulators
2548H requires manual adjustment using a combination of thumbwheel switches and variable capacitors
- 9) DFQ 40K has programmable frequency capability from 400Hz to 10,000Hz
2548H has a single frequency
- 10) With new Smart Cables provides ATE capabilities with full backward compatibility for all existing Barfield cables
2548H has no ATE capabilities
- 11) DFQ40K has automatic power on Self-Test with prompts for faults insuring operational readiness
2548H has no capabilities
- 12) DFQ40K uses 6 long lasting "C" size batteries with bar graph of the remaining battery life
2548H requires 4 each 9 volt batteries and user must test manually to determine state of readiness
- 13) DFQ40K has much wider operating temperature range of -25 to +55 Deg C
2548H range is limited from 0 to +40 Deg C

Comparison of DFQ40K and 8000 Test Sets

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