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ADF Science



FCU-100B Turbine Fuel System Training Set

Description

Designed to represent a complete aircraft fuel system, Model FCU – 100 B Turbine Fuel System Training Set enables trainees to learn the essentials of fuel system components and how these components are linked to each other in a typical aircraft fuel system. This trainer includes a capacitance fuel system that shows non-linear fuel quantity indications with multiple probes set at various angles. It comes fully plumbed and with a wing tank.

This completely functional fuel system consists of a fuel management panel, fuel transfer system and capacitance fuel quantity indicating system. It also contains an instructor's panel that makes it possible to add faults to conduct troubleshooting training. The fuel system panel features fuel quantity indicators, a fuel transfer selector valve, fuel transfer and low fuel warning lights, fuel pressure and flow indicators and complete fuel system drawings.

This system contains an electric fuel boost pump, engine driven fuel pump (either constant or variable displacement), screen type fuel filter with pressure bypass, fuel control unit, duplex turbine fuel nozzle inside a clear enclosed container, and a dump valve.

Features

- A Colorful Digital Screen (EMS)
 - Fuel Pressure Indicator
 - 2 Fuel Quantity Indicator
 - Fuel Flow Indicator
 - Fuel Pump Status
 - Valves Status
 - 20 min Fuel Caution off
- User Control Panel



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- Fuel Transfer Pump
- Transfer Selector Valve
- Fuel Filter
- Fuel Pressure Transmitter
- Fuel Flow Transmitter
- Fuel Level Transmitter
- Circuit Breakers
- Fuel System Aluminum Tube & Flex Hose
- Throttle Lever
- Combustion Chamber
- Main Fuel Tank
- Spare Fuel Tank
- Fuel Tanker for Simulation
- Drain Valves
- Shut-Off Valve
- Terminal Block
- Check Valve Aircraft Seats

Specifications

- Completely functional and designed to represent a typical engine aircraft fuel system.
- The control of the fuel that flows to combustion chamber can be observed using the throttle lever.
- Cross feeding training can be lead by transferring the fuel between the tanks.
- Fault panel available for the introduction of at least 10 simulated common system faults and errors.
- Terminal blocks allow for training in electrical fault finding.
- Configured with aircraft components.
- Training manuals such as troubleshooting charts, explanatory texts, wiring diagrams, flow schematics and component cut-away diagrams are included.
- Delivered fully assembled, tested and ready to operate.