



OPERATION MANUAL

PSDA300-4 TANK BREAKOUT A300-600R

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ELECTROSTATIC DISCHARGE GENERAL WARNINGS FOR ALL EQUIPMENT

CAUTION: THIS EQUIPMENT MAY CONTAIN ELECTROSTATIC DISCHARGE (ESD) SENSITIVE COMPONENTS. TO PREVENT ESD SENSITIVE EQUIPMENT FROM POSSIBLE DAMAGE, OBSERVE THE FOLLOWING PRECAUTIONS WHEN HANDLING ANY ESD SENSITIVE COMPONENTS, OR UNITS CONTAINING ESD SENSITIVE COMPONENTS:

- a. Maintenance or service personnel must be grounded through a conductive wrist strap, or a similar grounding device, using a 1 M Ω series resistor for equipment protection against static discharge, and personal protection against electrical shock.
- b. All tools must be grounded (including soldering tools) that may come into contact with the equipment. Hand contact will provide sufficient grounding for tools that are not otherwise grounded, provided the operator is grounded through an acceptable grounding device such as a wrist strap.
- c. Maintenance or service of the unit must be done at a grounded, ESD workstation.
- d. Before maintenance or service of the equipment, disconnect all power sources, signal sources, and loads connected to the unit.
- e. If maintenance or service must be performed with power applied, take precautions against accidental disconnection of equipment components. Specifically, do not remove integrated circuits or printed circuit boards from equipment while the equipment has power applied.
- f. All ESD sensitive components are shipped in protective tubes or electrically conductive foam. The components should be stored using the original container/package when not being used or tested. If the original storage material is not available, use similar or equivalent protective storage material.
- g. When ESD sensitive components are removed from a unit, the components must be placed on a conductive surface, or in an electrically conductive container.
- h. When in storage or not being repaired, all printed circuit boards must be kept in electrically conductive bags, or other electrically conductive containers.
- i. Do not unnecessarily pick up, hold, or directly carry ESD sensitive devices.

Failure to comply with these precautions may cause permanent damage to ESD sensitive devices. This damage can cause devices to fail immediately, or at a later time without apparent cause.

REVISION HISTORY BY DRAWING NUMBER

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Section I	00		

SECTION I GENERAL INFORMATION

1.1 INTRODUCTION

This manual provides operational information for the Aeroflex PSDA300-4 Fuel Quantity Interface cable.

The PSDA300-4 Fuel Quantity Interface cable, when used with the PSD60-2R Capacitance Tester is an interface cable that permits the functional checkout of the Fuel Gauging System on an A300-600 Aircraft. The PSDA300-4 Fuel Quantity Interface allows measurement of the capacitance of Tank Units or Compensators. The interface is also used to measure the insulation resistance of Tank probes and cabling.

1.2 EQUIPMENT DESCRIPTION

Figure 1-1 shows the layout of the interface cable. Refer to Table 1-1 for the description and function of each item.

TABLE 1-1

P2	AIRCRAFT INTERFACE	Allows connection from the PSD60-2R to the aircraft Inner, Outer and Center tank HI-Z lines.
P3	AIRCRAFT INTERFACE	Allows connection from the PSD60-2R to the aircraft Inner, Outer and Center tank LO-Z lines and Level Sensors.
P4	LO-Z	Allows connection from the PSDA300-4 to the PSD60-2R LO-Z connector.
P5	HI-Z	Allows connection from the PSDA300-4 to the PSD60-2R HI-Z connector.
P6	CHASSIS	Allows connection from the PSDA300-4 to the PSD60-2R Chassis Ground Connector.
J1	LEVEL SENSORS	Allows connection from the PSDA300-4 to the PSDA310-2 Level Sensor Tester.
J6	CHASSIS	Allows connection from the PSDA300-4 to Aircraft Ground.
S1	PROBE SELECT	Allows selection of the individual probes, compensators or total tank values.
		NOTE: Inner Tank probes 1 and 2 are swapped on non-Aeroflex harnesses.
	AIRFRAME GROUND	Allows connection from the PSDA300-4 to Aircraft Ground.

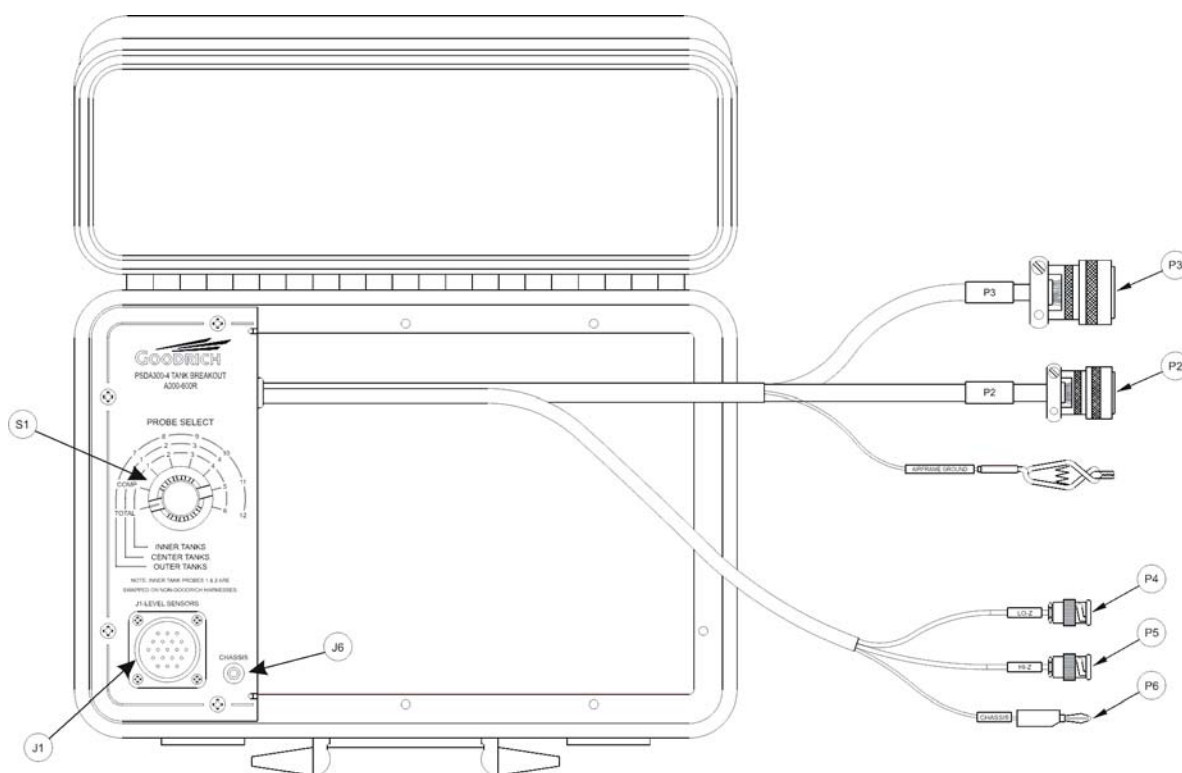


FIGURE 1-1

1.3 UNPACKING AND INSPECTING EQUIPMENT

Exercise extreme care when unpacking the unit. Make a visual inspection of the unit for evidence of damage incurred during shipment. If a claim for damage is to be made, save the shipping container to substantiate the claim. When the equipment has been unpacked, return all the packing material to the container for future use in storing or shipping of the equipment. Remove any protective covers from connectors before using the equipment. Replace any covers on the connectors after using the equipment.

1.4 SPECIFICATIONS

Physical Characteristics	
Dimensions:	13.4" X 8.9" X 5.6" (34.0 cm X 22.6 cm X 14.2 cm)
Weight:	5.0 lbs. (2.6 Kg)
Operating Temperature:	-40 to +55 deg. C.
Power Requirements:	None

1.5 MAINTENANCE INFORMATION

Maintenance information including bills of material, assembly drawings, schematics, and a test procedure, are available in the PSDA300-4 Maintenance Manual (P/N C6-0783-00 for hard copy, E6-0783-00 for CD) available separately from Aeroflex.