

Cargo Door Modular Test Equipment

>MDTE1-3<



The equipment is developed to test, monitor and control the A350 cargo door test equipment and to carry out the following tests: run time, load, engineering, icing, static, emergency opening and acceptance tests.

It is possible to adapt the equipment for other aircraft types.

- > The test equipment consists of one mobile stainless steel switching cabinet.
- > The test equipment is operated by an industrial PC and the TEST-FUCHS standard software.
- > The test values are generated and processed by a Sigmatek system.
- > Connections are fitted to control the servo motors or the "Hydraulic Supply Power Unit <HVA10-350KOR>".
- > Direct DMS (data measurement system) is provided by six conductors.

GENERAL INFORMATION

- > A 19" monitor, keyboard and mouse are fitted to display and operate the software
- > The uninterruptible power supply protects the computer system in case of power failure
- > The emergency-off button ensures shutdown of the system in case of danger or emergency
- > A fan with filter dissipates excessive heat in the switch cabinet
- > A grommet is fitted for all external electrical leads, to ensure no admission of external dust and impurities

TECHNICAL DATA

> Electrical supply (requirements):

Mains supply: 3/N/PE 50/60Hz 380 to 400V
 Nominal current: 6A
 Power: 4kVA
 Back-up fuse: 16AL
 Connection: Plug CEE 16A

> Operating conditions:

Operating temperature: 0 to 40°C (32 to 104°F)
 Storage temperature: 0 to 60°C (32 to 140°F)
 Altitude: 1,000m (3,280ft) above MSL
 Humidity: 10 to 95% (condensing)
 Noise emission: ≤85dB

> Dimensions and weight:

Width:	1,280mm	(50.4in)
Height:	1,960mm	(77.2in)
Depth:	840mm	(33.1in)
Weight:	380kg	(837.8lb)

> Measurement range:

DMS:
 (80-off) -3 to +3mV/V ±0.25% range

Angle:
 (4-off) 0 to 180deg ±0.25deg abs.
 (2-off) -10 to +10VDC ±0.25deg abs.

Torque:
 (1-off) -1,000 to +1,000Nm ±0.5% range
 (1-off) -100 to +100Nm ±0.5% range

abs. ... absolute tolerance
 range ... measurement range



Servo controller



Control console