

Product Information

CFDPS-FLT SAPHIR

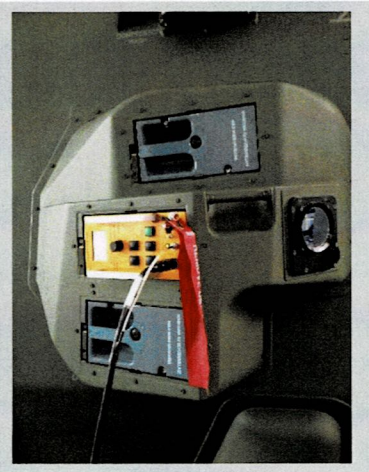
CFD Payload Simulator Flight Line Tester for Saphir



CFD Payload Simulator



Transport Case



Adaptation to CDM

General Description

The CFDPS-FLT Saphir is a stand-alone test equipment specially designed for functional testing of the Saphir Chaff and Flare Dispenser System (CFD), which is installed in the NH90 and TIGER helicopters. The CFDPS is designed as a light-weight simulator for use in an On-A/C environment. The functional tests can take place directly at the helicopter prior to take-off or deployment in order to provide the air crew with maximum confidence to their CFD-system.

The main task of the CFDPS is to simulate the presence of an CFD magazine in an H/C Dispenser, in order to check the whole dispensing chain. For this purpose, the CFDPS is inserted into the Cartridge Dispenser Modules (CDM) instead of the chaff or flare magazines.

The CFDPS is able to simulate different magazine codes.

The CFDPS simulates the ammunition squibs by the use of squib resistors. The squibs can be programmed individually for a good / missing / misfire / function.

The test status is displayed on the LC-Display on the front panel.

Product Information

The CFDPS discharges any stray voltage on the fire lines and checks that no voltage is present on one of the fire lines to ensure safe ammunition loading.

In order to reveal internal failures, the CFDPS is equipped with a selftest capability which checks the functionality of the whole internal electronic circuitry.

The CFDPS is powered by an external rechargeable battery.

The CFDPS is suitable to use outdoors and in harsh conditions due to its military standard specifications. All parts of the CFDPS are contained in a transport case with foam insert to avoid damage.

Test Modes of CFDPS

- Normal test for quick verification of the entire set of fire and commutation lines
- Misfire test for verification of ammunition cartridge misfire condition
- Missing test for verification of ammunition cartridge missing condition
- Zero voltage test to verify no voltage is present on one of the fire lines
- Manual mode for test and indication of arbitrary combinations of magazine types, fire sequences and misfired or missing cartridges
- Integrated Built-In-Test
- Interface connector for remote control and download of test results via an additional test device

Technical Data

Voltage supply:	12 VDC from external NiCd battery pack (1800 mAh) 28 VDC from helicopter board supply
Current consumption:	< 200 mA
Dimensions:	560 x 455 x 265 mm (Transport Case) 124 x 241 x 210 mm (CFDPS)
Weight:	11.2 kg (Transport Case including CFDPS) 2.9 kg (CFDPS)
Operating temperature:	-20 to +55°C
Storage temperature:	-20 to +63°C
Humidity:	< 95% relative humidity (non-condensing)
Rain/sand/dust:	IP54 (according to MIL-Std. 810F)
Shock/vibration:	according to MIL-Std. 810F