

IFF Interrogator Test Beacon

PB-2000

Tellumat



The PB-2000 is used for the calibration and testing of IFF interrogators at close range.

It comprises of an IFF transponder, control and display unit and power supply unit, fitted in a portable aluminium case with a removable front cover.

Front panel controls, indicators and connectors are accessed by removing the front cover.

The PB-2000 may be operated from either a DC (28 V) or an AC (220 V, 50 Hz) supply. The equipment may also be operated for a short time using an internal rechargeable battery. Recharging is by means of the external 220 Vac supply.

THE PB-2000 REPLIES TO VALID INTERROGATIONS IN THE FOLLOWING MODES

Modes 1, 2, 3/A and C

Mode S Level 2

Secure mode (with suitable crypto computer fitted)

Emergency and Identification of Position (I/P)

MAJOR COMPONENTS

Transponder
Control and Display Unit
Power Supply

FUNCTIONAL CHARACTERISTICS

Reply Modes: 1, 2, 3/A, C and S
Military and Civil Emergency
Identification of Position (I/P)
Secure Modes Mode 4
(with Crypto Computer fitted) National Secure Mode

SIMULATED PARAMETERS

Simulated Mode C Altitude -1,200 to + 126,700 feet
Simulated Range 1 to 120 km

TRANSMITTER / RECEIVER

Transmitter Frequency 1,090 MHz \pm 0.5 MHz
Transmitter Power +40 dBm
Receiver Frequency 1,030 MHz \pm 0.2 MHz
Receiver Sensitivity -50 dBm Minimum Trigger Level

RELIABILITY

Mean Time Between Failures Better than 3,500 hours (MIL-HDBK-217F)
Integrity Monitoring Comprehensive Built-in Test (BIT)

PHYSICAL CHARACTERISTICS

Mass 26 kg
Dimensions: Width 390 mm
Depth 484 mm
Height 310 mm
Cooling Convection: (no special cooling arrangements required)

ENVIRONMENTAL

Operating Temperature -20 °C to +55 °C
Environmental Qualification As per MIL-STD-810

ELECTROMAGNETIC

Electromagnetic Compatibility As per MIL-STD-461 and MIL-STD-462

POWER SUPPLY

Power Supply Input Either 220 Vac or 18 to 30 V dc



Tel: +27 (0)21 710 2911 Fax: +27 (0)21 710 2350 Email: avionics@tellumat.com Web: www.tellumat.com