MODE S Transponder - 160mm CLASS I, Level 2 es

BXP6403-1-(01)

Compact Line/Str/eillance



The BXP6403-1-(01) is a compact and lightweight single block Mode-S transponder it is certified according to ETSO-2C112b and is suited for VFR and IFR operations up to 50.000 feet.

The transponder is equipped with extended squitter and SI code function and it provides an interface to the central aircraft data system. It allows ELS, supports EHS, as well as ADS-B via extended squitter.

The Mode S ICAO address and additional fixed data are stored in a separate address module, AM6400-1-(01), which is plugged on to the transponder and remains in the aircraft when the transponder is exchanged.

The BXP6403-1-(01) is designed for slide-in mounting (tray available) and fits into a 160.3 x 41.28 mm cut out. The use of an adapter (available as accessory) allows for retrofit in a KT 76 A tray.

Panel inscriptions and sunlight readable display can be illuminated and dimmed for night operation. The display shows the actual settings.

The range of power supply voltage and the low power consumption make this transponder suitable for a wide range of aircraft.

The transponder is prepared for the connection of blind encoders from different manufacturers. The encoder can be connected to the transponder by a serial or a parallel interface.



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Technical data:

- Supply voltage
- Current consumption typical, without illum.
 - Operation
 - Standby
- Power-up time
- Ext. fuse protection
- Operating temperature
- Storage temp.
- Operating altitude
- · Operating modes
- Mode S
- Vibration resistance in accordance with EUROCAE/RTCA ED-14D/DO-160D
- Humidity in accordance with EUROCAE/RTCA ED-14D/DO-160D
- Dimensions
 - Core height
 - Panel height
 - Core width
 - Panel width
 - Core depth
- Weight
- Certifications
- Interfaces

10.0 V to 33.0 V DC

0.43 A at 14 V 0.25 A at 28 V 0.22 A at 14 V 0.44 A at 28 V

2 sec. (internal self-test)

5 A slow-blow

- 20°C to + 55°C (short-time + 70°C

- 55°C to # 85

≤ 50.000 ft

Mode A, Mode A+C, Mode

Level 2 es

- extended squitter
- surveillance ident.

Cat. S. Curve M

Cat. A / + 50°C; 95%, 48 h

38.0 mm 42.0 mm 156.0 mm 160.6 mm 155.0 mm approx. 1 kg ETSO - 2C11

ETSO - 2C112b EASA.210.717

Altim. serial and parallel Avionics data link processor

Receiver data:

- Receive frequency
- Sensitivity (MTL)
- Selectivity
- Dynamic range
- Side lobe suppression
- Nominal impedance

 $1030 \text{ MHz} \pm 0.2 \text{ MHz}$

- 74 dBm +/- 3 dB

± 15 MHz > 40 dB ± 25 MHz > 60 dB

≥ 60 dB

3-pulse method (A/C)

P5 (Mode S)

 50Ω

Transmitter data:

- Transmit frequency
- Transmitter type
- Transmit power
- · Reply rate limitation

Nominal output

1090 MHz ± 1 MHz Solid state ≥ 250 W

500...1200 replies / sec. configurable

50 Ω impedance

Avionic sale and customer service Two-way radio and telecommunication technology



