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# BECKER PRIME LINE

## COMMUNICATION & NAVIGATION



## BECKER BXP6403-2-(01) 160MM - MODE S Transponder CLASS II, Level 2 es

■ The BXP6403-2-(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 15000 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 BXP6403-2-(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 parallel interface. ■

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Becker Avionics, Inc. Tel: 954-450-3137  
10376 USA Today Way Fax: 954-450-3206  
Miramar, FL 33025 info@beckerusa.com

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# SPECIFICATIONS

## Technical Data

### General Data:

■ Supply voltage	10.0 V to 33.0 V DC
■ Current consumption (no illum)	
Operation:	0.43 A at 14 V 0.25 A at 28 V
Standby:	0.22 A at 14 V 0.14 A at 28 V
■ Power-up time	2 sec.(internal self test)
■ Ext. fuse protection	5 A slow-blow
■ Operating temperature	- 20°C to + 55°C (short-time + 70° C)
■ Storage temp.	- 55° C to + 85° C
■ Operating altitude	15,000 ft.
■ Operating modes	Mode A, Mode A+C, Mode S
■ Mode S	Level 2 es - extended squitter - surveillance ident.
■ Vibration resistance (in accordance with EUROCAE/ RTCA ED-14D/DO-160D)	Cat. S. Curve M
■ Humidity (in accordance with EUROCAE/ RTCA ED-14D/DO-160D)	Cat. A / + 50° C; 95 %, 48 h
■ Dimensions	
Core height:	38.0 mm
Panel height:	42.0 mm
Core width:	156.0 mm
Panel width:	160.6 mm
Core depth:	155.0 mm
■ Weight	approx. 1 kg
■ Certifications	ETSO – 2C112b EASA.210.717
■ Interfaces	Altimeter serial and Parallel Avionics data link processor

### Receiver Data:

■ Receive frequency	1030 MHz ± 0.2 MHz
■ Sensitivity (MTL)	- 74 dBm +/- 3 dB
■ Selectivity	± 15 MHz > 40 dB ± 25 MHz > 60 dB
■ Dynamic range	≥ 60 dB
■ Side lobe suppression	3-pulse method (A/C) P5 (Mode S)
■ Nominal impedance	50 Ω

### Transmitter Data:

■ Transmit frequency	1090 MHz ± 1 MHz
■ Transmitter type	Solid state
■ Transmit power	160 W
■ Reply rate limitation	500...1200 replies / sec. Configurable
■ Nominal output	50 Ω impedance



Blind Encoder  
BE6400-01-01