

BECKER COMPACT LINE



ATC 4401 Full Solid State Single Block Transponder

The ATC 4401 has been designed as a part of the Becker Compact Line for all aircraft and helicopters where small dimensions and light weight are essential. It has the same look and similar size as the successful transceiver AR 4201. The mounting behind the panel is as simple as for the AR 4201.

Outstanding performance combined with low power consumption is provided in two certified versions

ATC 4401-250 with min. 250 Watt transmit power ATC 4401-175 with min. 175 Watt transmit power

Both versions are state of the art designs with fully transistorized transmitters and compliant with the current, most stringent operating standards. The ATC 4401 is of course certified according JTSO and TSO regulations.

The sunlight readable display is illuminated for night operations. The display shows in addition to the transponder code also the current flight level, if an encoding altimeter is connected and Mode-C is selected. Despite the small size, the operation is simple and straight forward. It even allows the one button recall of two preselected codes.

The ATC 4401 operates from 9.5 to 32.2 V DC. This makes it suitable for almost every application in general aviation.

A standard encoding altimeter or blind encoder can be connected.



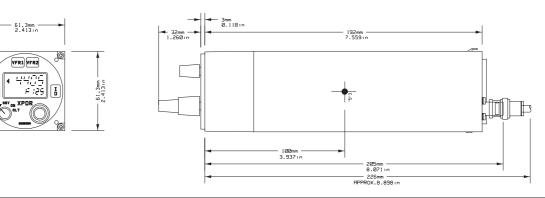
Receiver data:

Technical data ATC 4401

General data:

	Supply voltage Typ. consumption at	consumption at 5544 (1200/sec)		Operating modes	ModeA ModeA+C	
	(without panel illum.)			Receive frequency	1030 MHz ± 0.2 MHz	
				Sensitivity (MTL)	- 74 dBm (for 90 % reply rate)	
	– in standby mode	0.27 A at 13.75 V 0.14 A at 27.5 V		Selectivity	± 15 MHz > 40 dB ± 25 MHz > 60 dB	
	Panel illumination	≤ 0.10 A at 13.75 V ≤ 0.05 A at 27.5 V	2	Dynamic range	≥ 60 dB	
	Power-up time	3 sec. (internal self-test)		Bandwidth	\pm 3 MHz < 3dB	
	Ext. fuse protection	3 A slow-blow		Side lobe suppression	3-pulse method	
	Serial interface	RS 422 (9600 baud)		Nominal impedance	50 Ω	
	Operating temperature	- 20 °C to + 55 °C (short-time + 70 °C)	_			
	Storage temperature	- 55 °C to + 85 °C	Tra	ansmitter data:		
	Operating altitude in accordance with EUROCAE/RTCA	35000 ft.		Transmit frequency	1090 MHz \pm 3 MHz	
				Transmitter type	Solid state	
	ED-14D/DO-160D	Cat. C1		Transmit power	min. 250 W / 175 W	
1	Vibration resistance in accordance with EUROCAE/RTCA ED-14D/DO-160D	Cat. NM			at antenna socket	
				Reply limitation	effective as from 1200 replies / sec.	
	Humidity in accordance with	umidity Cat. A / + 50 °C; 95 %, 48 h		Nominal output impedance	50 Ω	
_	UROCAE/RTCA D-14D/DO-160D			Reply code (mode A)	ICAO coding system with 4096 reply possibilities	
	Mechanical dimens.	$61.2 \times 61.2 \text{ mm} (H \times M)$				
	Front panelCase depth	61.3 x 61.3 mm (H x W) (2.413 x 2.413 inch) 204 mm (8.031 inch)	2	Flight level code (mode C)	ICAO coding system 100-foot steps from	
	Weight	0.725 kg (1.598 lb)	_		- 1000 to 35000 ft.	
Ē	Test and assembly standards	RTCA DO-150 TSO/JTSO C74c, C88a EUROCAE MPS/WG9/1-71		Transmit pulse shape	pulse width 0.45 μs \pm 0.1 μs rise time 0.05 to 0.1 μs fall time 0.05 to 0.2 μs	

Product specification and design features may be altered without notice



Becker Flugfunkwerk GmbH Victoria Boulevard B 108 77836 Rheinmünster/Germany Tel. +49 (0) 72 29 / 305-0 Fax +49 (0) 72 29 / 305-217 e-mail: info@becker-avionics.de http://www.becker-avionics.de

