

KT 76C

Bendix/King
Panel-Mounted
Transponder



FL 065 ALT R 1200

XPDR
TST
SBY
OFF
VFR

KT76C 150
ON
ALT

1 2 3 4 5 6 7 CLR VFR

KT 76C

The Bendix/King Silver Crown Plus™ KT 76C transponder combines outstanding reliability with easy-to-use features, contemporary styling and extensive backlighting. (Shown actual size)



Offering improved ergonomics, our entire line of Silver Crown Plus avionics features more extensive control backlighting and larger, sturdier knobs for easier use.

The Value of Experience

Continuing the success of our KT 76 series, Honeywell's advanced Silver Crown Plus KT 76C panel-mounted transponder incorporates the experience gained from installing more than 150,000 KT 76 and 76A systems and accumulating literally millions of flight hours.

Combining state-of-the-art technology with ease of use, the KT 76C is the first panel-mounted Mode A/C transponder to offer such features as sequential pushbutton squawk/code entry. Pressing a single button lets you switch to any pre-set VFR code you choose. It operates with both 14- and 28-volt electrical systems. And its extensive backlighting and bright gas discharge display make it easy to read in all light levels.

The KT 76C drops directly into the same space as an existing KT 76A* and readily fits most stacks to replace other transponders. Although cooling air isn't required, an optional forced-air inlet has been included to further extend service life.

The Value of Reliability

In today's complex airspace environment, a transponder is simply a necessity. Both Air Traffic Control (ATC) and other TCAS-equipped aircraft rely on transponder replies to determine your position.

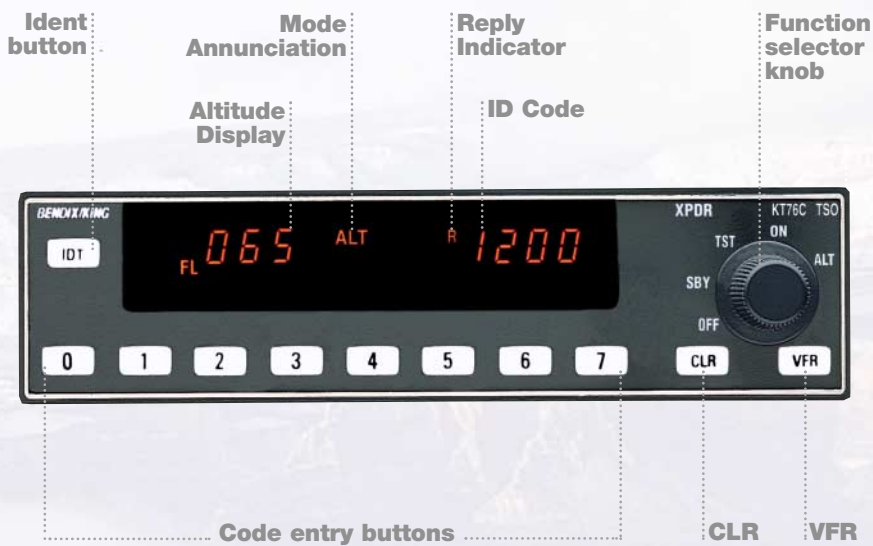
To ensure the visibility of your aircraft, both now and in the foreseeable future, we built the KT 76C to pass the rigorous Highly Accelerated Lifecycle Testing (HALT) program, subjecting it to rapid extremes of temperature, vibration and G-loading. Whatever your flying regimen, the KT 76C has already been there and demonstrated it will keep working.

A New Look And Feel

Matching our other Silver Crown Plus avionics, the KT 76C features a more contemporary look. However, more than just a styling update, this change helps improve ergonomics and makes this capable new transponder easier to operate.

** Requires bypassing an existing resistor in 28-volt installations of a KT 76A*





For example, backlighting of the bezel nomenclature and knobs is now standard, speeding recognition and making night flying even easier. The KT 76C's new design eases pilot workload through the use of ergonomic, high-reliability pushbuttons. A high-visibility gas plasma display presents the selected code and pressure altitude. Automatic, microprocessor-controlled display dimming ensures readability under all cockpit conditions, from bright sunlight to total darkness.

About Transponders

Your Bendix/King KT 76C transponder is a radio transmitter/receiver which operates on radar frequencies. Receiving ground radar interrogations at 1030 MHz, it returns a coded response of pulses to ground-based radar—or airborne TCAS receivers—on a frequency of 1090 MHz.

As with other Mode A/Mode C transponders, the KT 76C replies with one of 4,096 codes, which differ in the position and number of pulses transmitted. By “replying” to interrogations, your KT 76C enables ATC and TCAS computers to display your aircraft's identification, altitude and ground speed on display screens. When the IDENT button is pressed, your aircraft will be positively identified to Air Traffic Control.

Backed By The Best

Like our other panel-mounted avionics, the KT 76C is backed by our comprehensive two-year Bendix/King “no-hassle” warranty. And, wherever you fly, you'll never be far from one of our 800 authorized service centers worldwide—the most extensive and responsive support network in general aviation.

Combining improved ergonomics, enhanced performance, a host of usable new features and legendary Bendix/King reliability, the Silver Crown Plus KT 76C offers the value and capability you expect from the leader in panel-mounted avionics.

For more details or a demonstration, see your nearest authorized Honeywell Sales & Service Center.

About The KT 76C

IDENT Button – Marked IDT, the KT 76C's Ident button is pressed when ATC requests an “Ident” or “Squawk Ident” from your aircraft.

ALTITUDE DISPLAY – The KT 76C displays Flight Level Altitude, marked by the letters “FL” and a number in hundreds of feet, on the left side of the display.

REPLY INDICATOR – The lighted “R” (reply indicator) blinks when the transponder is replying to a valid interrogation.

ID CODE – The ATCRBS Transponder Identification code (squawk code) for the aircraft is displayed in the Ident Window on the right side of the display. The Code Entry Buttons select the identification code.

FUNCTION SELECTOR KNOB – The Function Selector Knob on the right side of the KT 76C enables you to choose from among the following operating modes:

OFF – The unit is not receiving power.

SBY (STANDBY) – In Standby, the KT 76C is energized but is inhibited from replying to any interrogation.

TST (TEST) – Replies are disabled in test mode, and the unit performs a series of internal tests to check the KT 76C's integrity.

ON – The KT 76C is able to reply to all valid Mode A and C interrogations, but altitude information is suppressed.

ALT – The KT 76C replies to all valid Mode A and C interrogations and provides altitude information.

VFR BUTTON – The VFR Pushbutton recalls the preprogrammed VFR code, superseding the previously entered code; pressing and holding the button causes the last active code to be displayed.

CLR BUTTON – This button enables you to clear code entry mistakes.

CODE ENTRY BUTTONS – These buttons, numbered 0-7, allow you to select the proper reply code.

KT 76C Specifications

TSO C74c Class 1A, RTCA DO-160C, DO-178B

Temperature Range:	-20° C. to +55° C. for continuous operation
Weight:	2.0 ± 0.2 lbs. not including mounting rack or KA 60 antenna
Installation Space:	6.25 in. (15.87 cm) x 1.63 in. (4.14 cm) 10.73 in. (27.27 cm)
Power Requirements:	14 volt-1.24A (max.)* Standby Mode .68A or 28 volt-0.63A (max.)* Standby Mode .36A *Not including panel lighting current
Altitude:	35,000 feet
Transmitter Frequency:	1090 MHz ±3 MHz
Transmitter Power:	200 watts peak minimum
Receiver Frequency:	1030 MHz ±0.2 MHz (crystal controlled local oscillator)
Receiver Sensitivity:	-73 dBm (nominal) -69 dBm (minimum for 90% reply)
Mode A Capability:	4096 identity codes plus Special Identification Pulse
Mode C Capability:	Accepts standard ICAO Altitude Transmission Code digitizer output, reporting in 100-foot increments from -1000 feet throughout the operating range.



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Policy Notice: Avionics installations require special skills, tools and test equipment. Our limited warranty is valid only for equipment installed in accordance with our sales and service policies. In keeping with our policy of continual product improvement, designs and specifications may be altered without notice.

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