STX 165 Transponder

A New Standard For Mode C Transponders

STX 165

0505

EFT 01:30

IDT

Small And Light Weight Low Power Consumption Built-in Encoder Pressure Altitude Display Three Timer Functions Optional OAT Probe Input Outside Air Temperature Display

ALT

Mode

 (\mathbf{l})

PALT

VFR

Density Altitude Readout Icing Alert

SANDIA aerospace

Photo Courtesy NASA Hubble

STX 165 Mode C Transponder



The STX165 elevates transponder capabilities to a new level while reducing both wight and size. The solid state transmitter design provides 200 Watts nominal output with no warm up time. And because it's all solid state, power requirements are at an absolute minimum.

The STX165 is a panel mount unit that uses a 1/2 3ATI panel cutout, just like equipment found in top of the line business aircraft. Behind the panel depth is only 6 1/4' (not including connectors). With a built in Altitude Encoder, installation time and cost is greatly reduced. When the optional STP 78 OAT probe is installed the STX165 displays Outside Air Temperature, Density Altitude and even alerts the pilot when the temperature is conducive to icing conditions.

A remote version, the **STX165R** is available for interface with existing navigation management systems. The STX165R will accept either Gilham Gray Code or RS-232 altitude input for Mode C operation. The STX165R can be mounted with or without the mounting tray either vertically or horizontally. All functions of the STX165R are remotely con-

Technical Specifications

STX 165 Panel Mount

Electrical Input Voltage Current Requirements:

Power Output: Transmitter Freq: Receiver Freq: Receiver Sensitivity: -74 Mechanical: Dimensions Behind Panel Dim.

Weight Inputs Alt Encoder

OAT Probe Environmental: Temperature: Altitude Certification:



11-33Vdc 430 mA @ 14 Vdc 210 mA @ 28Vdc (500PRF and 7777Code)

200 Watts Nominal 1090 KHz 1030 MHz -74dBm Nominal @90% reply rate

> 1/2 3ATI Panel Cutout 1.78"H x 3.5"W x 7.34"L 4.52cm x 8.89cm x 18.64cm 1.30 lbs (.59kg)

Built-in 35K Encoder External RS-232 (Optional) SANDIA STP78 (Optional)

-20⁰ to +55⁰ C -100 to 35,000 Ft DO160F DO 178B Level C TSO C74d TSO D88b (Encoder) STX 165R Remote

11-33Vdc 360 mA @ 14 Vdc 180 mA @28 Vdc (500PRF and 7777Code)

200 Watts Nominal 1090 MHz 1030 MHz -74dBm Nominal @90% reply rate

3"H x 1.8"W x 6.9"L

8.89cm x 4.57cm x 17.53cm 1.16 lbs (0.526kg)

Grey Code RS-232 N/A

-20^o to +55^o C -100 to 55,000 Ft DO160F DO178B Level C TSO C74d

> www.sandia.aero STX165R31000