STX 165 and STX 165R Transponders

A New Standard For Mode C Transponders

STX 165 Panel Mount

Built-in Encoder
Pressure Altitude Display
Three Timer Functions
Optional OAT Probe Input
    Outside Air Temperature Display
    Density Altitude
    Icing Alert

STX 165R Remote

200 Watts
Small and Light Weight
Multiple Mounting Methods
Functions Controlled Via RS-232

Photo Courtesy NASA Hubble

SANDIA aerospace

STX 165 and STX 165R Transponder

A New Standard In Transponders The STX 165 and STX 165R elevate transponder capability to a new level while reducing both weight 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.

STX 165 is a panel mount unit that uses a 1/2 3ATI panel cutout. 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. The optional OAT Probe input provides additional capability including density altitude and OAT displays and icing alerts.

STX 165R will accept either Gillham Gray Code or RS-232 altitude input for Mode C operation. The STX 165R can be mounted with or without the mounting tray either vertically or horizontally. The STX 165R is especially suited for installations where size, weight and power consumption are critical. All functions of the STX 165R can be remotely controlled via the RS-232 port.

TECHNICAL SPECIFICATIONS

	STX 165 Panel Mount	STX 165R Remote
Electical:		
Input Voltage	11-33Vdc	11-33Vdc
Current Requirements:	500 mA @ 28 Vdc	200 mA @ 28 Vdc
	(500PRF and 7777 Code)	(500PRF and 7777 Code)
Power Output:	200 Watts Nominal	200 Watts Nominal
Transmitter Freq:	1090 MHz	1090 MHz
Receiver Freq:	1030 MHz	1030 MHz
Receiver Sensitivity:	-74dBm Nominal at 90% reply rate	-74dBm Nominal at 90% reply rate
Mechanical:		
Dimensions: Behind Panel Dim.	(1/2 3ATI Panel Cutout) 1.78"H x 3.5"W x 7.34"L 4.52cm x 8.89cm x 18.64cm	3.5"H x 1.8"W x 6.9"L 8.89cm x 4.57cm x 17.53cm
Weight:	1.30 Lbs. (.59 kg)	1.16 Lbs (0.526 kg)
Inputs:		
Alt. Encoder:	Built-in 35K' Encoder External RS-232	Grey Code RS-232
OAT Probe:	SANDIA STP 78 (Optional)	NA
Environmetal:		
Temperature	-20º to +55º C	-20º to +55º C
Altitude	-1000 to 35,000 Ft	-1000 to 55,000 Ft
Certification:	DO160F DO178B Level C TSO C74d TSO C88a	DO160F DO178B Level C TSO C74d