

SkyTrax AXP322

Mode S Transponder w/ADS-B Out



Compact & Capable Mode S

Avidyne's AXP322 is a remote-mount Mode S Transponder designed to meet the needs of modern general aviation aircraft and piloted, remotely-piloted, and autonomous Advanced Air Mobility (AAM) aircraft including electric, hybrid Vertical Take Off and Landing (eVTOL).

As part of the SkyTrax™ family of surveillance products, the AXP322 is an ED-73C and DO-181E Class 1 compliant Mode S level 2ELS datalink transponder, with support for extended squitter, elementary surveillance and SI codes for ADS-B out operations with nominal transmitter power output of 250 watts.

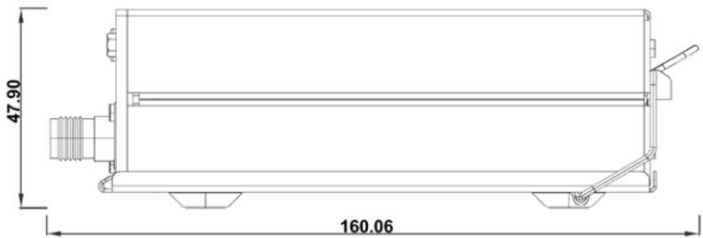
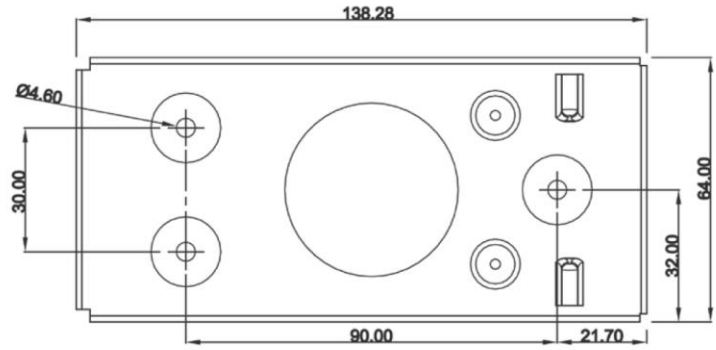
The fully-addressable AXP322 transponder responds to both legacy Mode A/C interrogations and to Mode S interrogations from both ground radar and airborne collision avoidance systems.

Interrogations are received by the transponder on 1030MHz, and replies are transmitted on 1090MHz. In the Mode S environment, S stands for Select, and a Mode S interrogator can selectively address a single transponder. This allows accurate position plotting with lower reply rates, which in turn reduces frequency congestion and interference.

Remote Control saves panel space

The AXP322 transponder is controlled using a separate control and display device including Quantum14/Quantum 11 displays and the Avidyne IFD-Series. This allows the transponder to be mounted separately from the instrument panel, and reduces the amount of panel space taken by the transponder. A Weight on Wheels (WOW) input allows for automatic switching in and out of Ground Mode.

AXP322 Mode S Transponder with ADS-B Out



All dimensions in millimeters

Specifications

AXP322

Weight: 0.80lbs (0.59kg)
Height: 1.90" (47.90mm)
Width: 2.50" (64.00mm)
Depth: 6.30" (160.06mm)

Power Requirements

Power: 11-33vdc
0.2A @ 28vdc

Environmental

DO160G qualified

- To 35,000ft
- 20 ° C to +70°C

Cooling

No external cooling required

| I/O | QTY |
|------------|-----|
| RS485 | 1 |
| RS232 | 1 |
| Discrettes | 4 |

Compliance

DO-178: DAL B
DO-254: DAL C
DO-160: A2/C1, C, A, B, B, U/G, X, X, X, X, X, X, Z, BX, B, B, AC, R, M, B2H22, X, X
TSOs: TSO-C112c and TSO-C166b

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Avidyne reserves the right to make changes to product specifications and design features without notice.

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