

ENCODERS



ACK A-30 ALTITUDE ENCODER

Add Mode C capability to your aircraft the most cost-effective way. The ACK encoder is the smallest, lightest, highest quality encoder available today and features the latest solid-state electronics for high reliability. Installation is quick and easy and usually is completed in less than 1 hour. It is compatible with most transponders in use today and reports altitude to 30,750 ft. Includes quick-release mounting tray, 4-ft. color-coded wiring harness with prewired jack, static line and fittings for installation in any aircraft, and installation manual with popular transponder pin-outs. 3yr. warranty.P/N 11-01561 ----



ACK A30.9 (MOD 9) ENCODER

The ACK A30.9 (Mod 9) encoder is ideal for use with most GPS and TAWS systems, and works well with most of today's mode S transponders. Feature Gray code in 100ft. increments and RS-232 in 10 or 100 feet increments. Furnished with a 4 ft. harness, pre-wired jack, quick release mounting tray, fittings, static line, and installation manual. Reports altitude to 42,000 ft. One Year Warranty.....P/N 11-02375



TRANS-CAL ALTITUDE ENCODER MODEL SSD120-30N

Reliable service for over 10 years. • Pin for pin replacement for most other manufacturers encoders. • Comes with Mating Connectors with Cable Clamps, and Mounting Bracket. • Optional: Available with two independent RS232 serial data ports selectable message protocols for most popular avionics interfaces. Programmable for 100' and 10' resolutions. See Part No. 11-06983 • Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturers mounting tray. 30,000 ft. Range.....P/N 11-06489

35,000 ft. Range.....P/N 11-09608
SSD120-30N-MOD1.....P/N 11-09916

TRANS-CAL ALTITUDE ENCODER MODEL SSD120-30N-RS232

Reliable service for over 10 years. Pin for pin replacement for most other manufacturers encoders. Optional: Available with adapter plates that will allow the installer to mount the unit in another manufacturers mounting tray. • Will operate on either 14 or 28 VCD at 0.270 Amps. There are two versions of this model: • Standard Version SSD120-30N-RS232 • Version SSD120-30N-RS232-MOD1 for NARCO AT-5A, 6A, 50, 50A Transponders.

30,000 ft. Range.....P/N 11-06983
35,000 ft. Range.....P/N 11-09609
SSD120-30N-RS232-MOD1.....P/N 11-09917



TRANS-CAL ALTITUDE ENCODER MODEL SSD120-35C-RS232

The smallest, lightest, and lowest power consumption Altitude Digitizer on the market. The SSD120-35C-RS232 is a solid-state Altitude Encoder that is designed to provide a rugged and reliable altitude digitizer for applications where size, weight and economy are critical. Incorporating one ICAO gray code port, as well as two RS232 serial altitude data outputs, this encoder is a simple and robust addition to any avionics installation requiring accurate pressure altitude information for multiple aircraft systems.P/N 11-15366

TRANS-CAL ENCODER PROGRAMMER



The ECP-100 allows the avionics technician to assign serial port protocols, 100' or 10' resolution and/or allow programming of the calibration curve on Trans-Cal Altitude Encoders using the RS232 port. Trans-Cal Altitude Encoders with RS232 ports are a popular pressure altitude solution; providing serial altitude data in the aircraft for a variety of systems. The ECP-100 provides a quick, rugged and reliable method to set serial port protocol assignments (message and baud rate) and calibrate Trans-Cal altitude encoders without using a PC.....P/N 11-13201

TRANS-CAL NANO ADAPTER PLATES



Trans-Cal Industries has developed Adapter Plates that allow the technician to quickly replace existing or legacy encoder installations in favor of the new Trans-Cal SSD120-(XX)N series of altitude digitizer/encoders. These plates simplify the installation task by providing an adapter designed for the Trans-Cal unit, while utilizing the existing mounting tray. All adapter plates include stainless steel mounting hardware and are approved for installation under TSO-C88a and ETSO-C88a

Adapter Plate	Part No.	Price
ACK	11-09603	---
Ameri-King	11-09605	---
Sandia	11-09602	---
Shadin	11-09604	---
SSD120 and Narco	11-09601	---
Sandia 103035	11-13198	---
Sandia 103036	11-09602	---



SANDIA SAE5-35 ALTITUDE ENCODER

The SAE5-35 altitude encoder from Sandia is small (1" high), lightweight (12 oz.) and utilizes Gillham Grey code in 100' resolution for optimum performance and accuracy. Features two RS232 outputs in 10 foot resolution, simplifying installations. All connectors are on the same side for easy mounting, and digital calibration eliminates analog drift. Altitude In-Flight Monitoring (AIM) mode alerts the pilot when he strays off altitude. Requires virtually no warm up time and uses very little power. Fully TSO'd and backed by factory 3 year warranty. Power: 11-33VDC. P/N 11-00665



SANDIA SAC 7-35 AIRDATA COMPUTER

The SAC 7-35 is FAA TSO Approved as an altitude encoder. It provides standard Gillham Grey code for legacy transponders and RS-232 data for the new generations of transponders. Altitude Alerting. The SAC 7-35 has SANDIA Aerospace's exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. Airdata Computer. The SAC 7-35 is a full up TSO'd Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems. Designed and manufactured to most exacting standards, you can depend on SANDIA Aerospace products to provide years of reliable service. And every product is backed by a three year warranty and personal service support. P/N 11-07938



SANDIA SAC 7-35-01 AIRDATA COMPUTER

The SANDIA aerospace SAC 7-35-01 is an airdata computer and data translator that interfaces the Garmin 400W/500W navigators Downlinked Aircraft Parameters in ARINC 429/743 format to the Collins TDR 94D for ADS-B out capabilities. Note: Interfaces with Garmin 400W/500W navigators. Functions: • Altitude Encoder. The SAC 7-35 is FAA TSO Approved as an altitude encoder. It provides standard Gillham Grey code for legacy transponders and RS-232 data for the new generations of transponders. • Altitude Alerting. The SAC 7-35 has SANDIA Aerospace's exclusive AIM (Altitude Inflight Monitoring) that alerts the pilot anytime he deviates more than 100 feet from his selected altitude. • Fuel Flow. The addition of a fuel flow transducer (two for a twin) and your SAC 7-35 provides all the fuel flow data your navigation systems needs to monitor your fuel situation. • Airdata Computer. The SAC 7-35 is a full up TSO'd Airdata Computer offering all of the functions and capabilities of systems costing thousands of dollars more. The SAC 7-35 has multiple interface formats that allow it to provide data to a wide variety of avionics systems.....P/N 11-09321

TRANS-CAL ALTITUDE DATA SIMULATOR



The Model ADS-100 is an all solid-state device that simulates the output of altitude encoders/digitizers in both parallel and serial (RS232) data formats. Designed to substitute for an altitude encoder when testing and troubleshooting an aircraft's altitude reporting system, the ADS-100 provides two RS-232 compliant outputs in addition to the ICAO pressure altitude code. The Model ADS-100 provides a simple and robust means of simulating serial and parallel altitude data inputs for multiple aircraft systems. The bright two-line vacuum fluorescent display gives the test technician a view of the current altitude code transmission on both the serial and parallel ports. LED indicators display the status of the encoder strobe, power and serial data protocol pins, as well as the binary ICAO altitude code. Audible alerts are generated at 1000' or 100' altitude code transition points. Front panel switches control the device power, altitude hold, ascent/descent rate, audible signals and serial data protocol.....P/N 11-13199



MICROAIR EC2002 ALTITUDE ENCODER

EC2002 will accurately report the aircraft's altitude from -1000 to +35,000ft. The altitude output will be via the 10 line Gillham "Gray" code. Accuracy has been measured as a 40 foot drift over 35,000 feet. Lowest power requirements of any altitude encoder today. Typical current consumption of 10 - 90mA, this makes it the logical choice for all battery only operators. Small size and light weight make installation very simple. The chassis is flanged, and is predrilled with mounting holes for easy attachment. The connections consist of the well know DB-15 electrical connector with pin assignments identical to many existing encoders, and a 1/8" NPT fitting which is an industry standard for aircraft equipment. These connections make it compatible with all ATC transponders currently available. P/N 11-05105