

*Trans-Cal Industries, Inc.  
Model SSD120-(XX)NEH-RS  
Altitude Digitizer*

*An Altitude Digitizer for Wet & Icy Installations!*

The SSD120-(XX)NEH-RS is designed to provide a rugged and reliable pressure altitude digitizer for applications where exposure to icing, condensation, driving rain and/or water spray and temperature extremes are possible. Incorporating one ICAO grey code, two RS-232 and one RS-485 compliant outputs the Model SSD120-(XX)NEH-RS is a simple and robust addition to any avionics installation requiring accurate pressure altitude information for multiple aircraft systems.

**Featuring:**

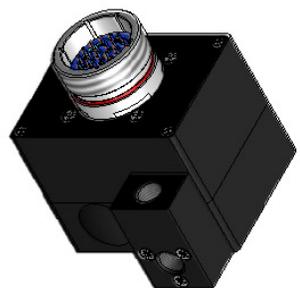
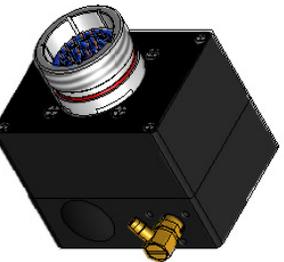
- Two RS-232 compliant data outputs
- One RS-485 compliant data output
- Serial ports may be installer configured to transmit separate data protocols (message & baud rate)
- One ICAO pressure altitude grey code output
- FAA TSO-C88a and EASA ETSO-C88a Approved
- Tested and Conforming to MIL-STD-704E and RTCA DO-160E
- Power, ground and data I/O lines are all provided on a hermetically sealed MIL-DTL-38999 Series III cylindrical connector.
- Operating Voltage +10 to +33Vdc
- Operating Current: 60mA
- Operating Temperature Range: -55° to +70°C
- Operating Altitude Range: -1200 feet to +100,000 feet. Specify operating range when ordering.
- Weight: 11 oz.



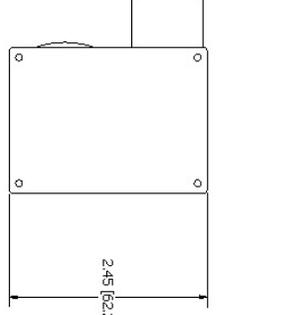
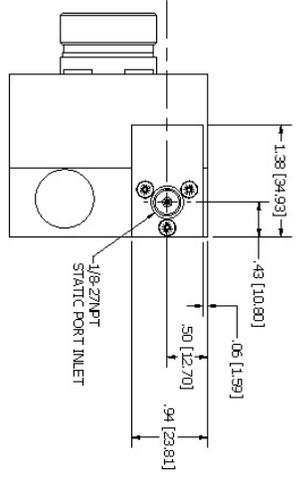
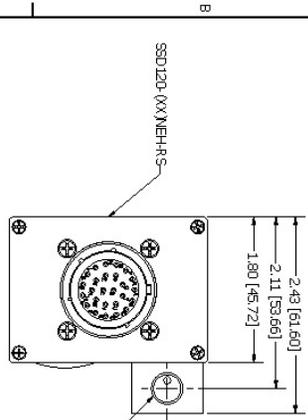
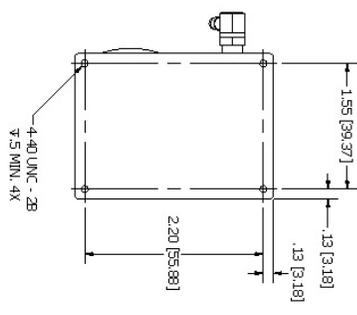
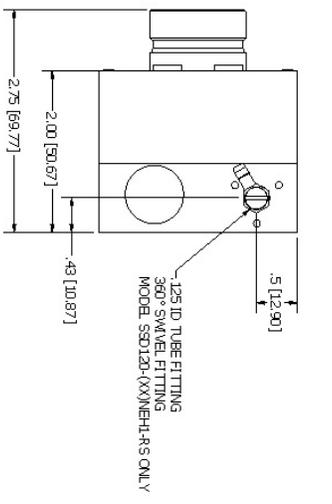
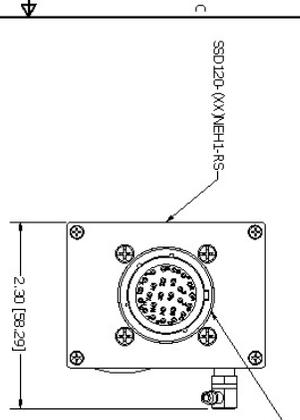
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CONNECTOR PIN ASSIGNMENTS		
FN	FUNCTION	PIN
A	SIGNAL COMMON	P
B	C4	485 TIA (1)
C	C2	R 485 TIA (4)
D	C1	S PROTOCOL 1
E	B4	T PROTOCOL 2
F	B2	U TSD1
G	B1	V RxD
H	A4	W DATA GND
J	A2	X TxD2
K	A1	Y DATA GND
L	D4	Z DATA GND
M	D2	a +12 TO 28VDC PWR.
N	D1	b PWR. GND
		c ID RESOLUTION



REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	PROTOTYPE RELEASE FOR DISCUSSION ONLY	5/03/2007	J. Ferrero
B	ADDED ETISO REF., SI UNITS, & TOP ASSY#	7/10/2008	J. Ferrero
C	CONNECTOR 038999/21NE28PN WAS 038999/21NE28PN, AND COM1 FLANGE INTERNAL TO CASE.	08/14/2008	J. Ferrero



1. AN "E" SUFFIX IN THE MODEL NO. (SSD120-30NEH(S)) DESIGNATES FULL TEMPERATURE RANGE (-55° TO +70°C)
2. D4 DATA BIT USED ON MODELS WITH OPERATING CEILINGS ABOVE 30,700 FT.
3. D2 DATA BIT USED ON MODELS WITH OPERATING CEILINGS ABOVE 62,700 FT.
4. MANUFACTURED AND APPROVED UNDER FAA TSO-C88A AND EASA ETSO-C88A
5. OPERATING VOLTAGE +12 TO +28VDC AT 50MA
6. REPLACE (XX) IN MODEL NO. WITH TWO DIGIT OPERATING CEILING. EX. 30 = 30,000 FEET.

TOP ASSY NUMBER: 104001	DRAWN: H. Smith	5/8/2007	
HOUSING IS 0001 TO 4LUM, APPROXIMATE AS PER MIL-A-5623	CHECKED: M. Remarsh	7/11/2008	
BLACK	OK		
TOLERANCES, UNLESS OTHERWISE NOTED: DIMENSIONS: .0010 .0005 .0010 .0005 .0010	ENG: J. Ferrero	7/11/2008	
APPROVED: APPROVED: APPROVED: APPROVED:	C. HERBERG	7/11/2008	
	J. FERRERO	7/11/2008	
THIRD ANGLE PROJECTION			

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**Outline Drawing: SSD120-(XX)NEH(-RS)**  
**Series Altitude Digitizer**

SIZE: DO NOT SCALE DRAWING  
SCALE: 1:1 UNITS: INCH

REV: C