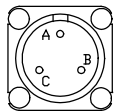
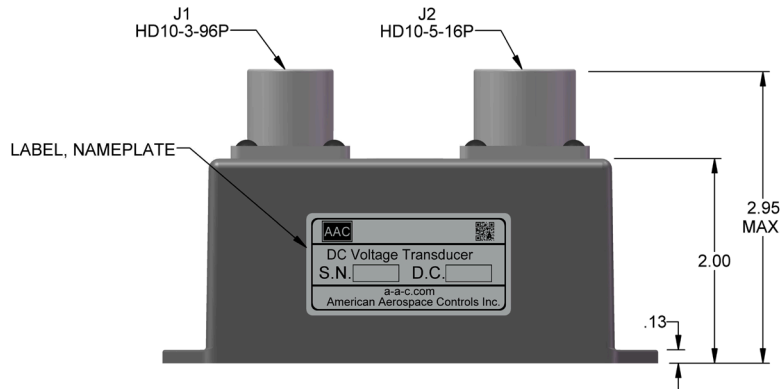
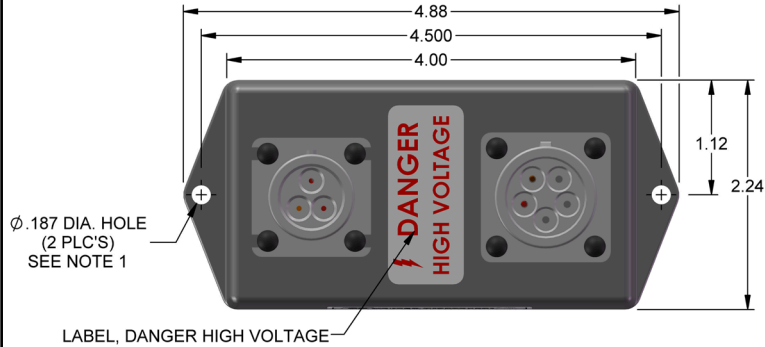
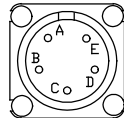


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**DC VOLTAGE TRANSDUCER
SERIES S657
LOOP POWER TWO & THREE WIRE
4 TO 20mA OUTPUT**



J1
DEUTSCH CONNECTOR
HD10-3-96P
MATING CONNECTOR
HD16-3-16S



J2
DEUTSCH CONNECTOR
HD10-5-16P
MATING CONNECTOR
HD16-5-16S

TERMINAL IDENTIFICATION

- J1**
J1-A. SPARE
J1-B. INPUT VOLTS (+/-)
J1-C. INPUT VOLTS (+/-)

TRANSDUCER SUPPLIED WITH MATING CONNECTORS AND SOCKET CONTACTS.

PART NUMBER	RANGE	OVERLOAD	PART NUMBER	RANGE	OVERLOAD
S657-L75	0 to ± 75mVdc	±1Vdc	S657-100	0 to ± 100Vdc	± 300Vdc
S657-1	0 to ± 1Vdc	± 25Vdc	S657-150	0 to ± 150Vdc	± 300Vdc
S657-2	0 to ± 2 Vdc	±70Vdc	S657-300	0 to ± 300Vdc	± 600Vdc
S657-5	0 to ± 5Vdc	±100Vdc	S657-500	0 to ± 500Vdc	± 1000Vdc
S657-10	0 to ± 10Vdc	±200Vdc	S657-750	0 to ± 750Vdc	± 1500Vdc
S657-20	0 to ± 20Vdc	±300Vdc	S657-1200	0 to ± 1200Vdc	± 1800Vdc
S657-50	0 to ± 50Vdc	±300Vdc	S657-1500	0 to ± 1500Vdc	± 2000Vdc
S657-60	0 to ± 60Vdc	±300Vdc	S657-2000	0 to ± 2000Vdc	± 3000Vdc
S657-75	0 to ± 75Vdc	±300Vdc			

INPUT

RANGE	See Table
OVERLOAD CONTINUOUS	See Table
OVERLOAD TRANSIENT	6Kvdc FOR 100µ-sec
ISOLATION	5Kv RMS 60Hz For 1 min.
BURDEN @ FULL SCALE	500µA typ. 100µA for the 5, 10 & 20Vdc range.

OUTPUT

CURRENT SIGNAL	4 to 20mAdc FS (Full Scale)
ACCURACY	±0.5% FS (±0.1mA max.) over temp. range
POLARITY SENSING	4 to 20mAdc proportional to the absolute. Value of the input voltage.
RESPONSE (10 to 90%)	5m-sec. max.
LOAD RESISTANCE	250 Ohms nominal
LOAD RESISTANCE RANGE	0 to 500 Ohms
CURRENT SIGNAL @ OVERLOAD	24mAdc typ.
ISOLATION MODE REJECTION RATIO	>85db @ 60Hz

POWER SUPPLY

SUPPLY VOLTAGE	+19 to 32Vdc
CURRENT DRAIN	24mA max.
TRANSIENT (With 250Ω Source Impedance)	60Vdc 5 sec. 100Vdc 1m-sec.
PROTECTION	Reverse Polarity Protected

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING TEMPERATURE	-40° to +85°C
STORAGE TEMPERATURE	-55° to +85°C
OPERATION HUMIDITY	0 to 100% relative humidity
SHOCK & VIBRATION	20g shock, 10g @ 5-200Hz
INSULATION RESISTANCE	500M-Ohms @ 500Vdc
DIELECTRIC STRENGTH	1.5Kv RMS 60Hz Continuous.
CASE (UL Flammability rating 94VO)	Thermoplastics Cicolac ABS
WEIGHT	1.5 lbs. max.

TERMINAL IDENTIFICATION

- J2**
J2-A. SUPPLY VOLTS (+)
J2-B. OUTPUT SIGNAL (+)
J2-C. SUPPLY & OUTPUT (RTN)
J2-D. SPARE
J2-E. SPARE

NOTE:

- RECOMMENDED MOUNTING HARDWARE #8 SCREW, #8 SPLIT LOCKWASHER AND # 8 FLAT WASHER. TORQUE MAXIMUM 18 IN-LB.
- SEE AAC DRAWING S657-04-001 FOR WIRING HOOK UP INFORMATION.

SHEET 1 OF 2



**DRAWING NUMBER
S657**

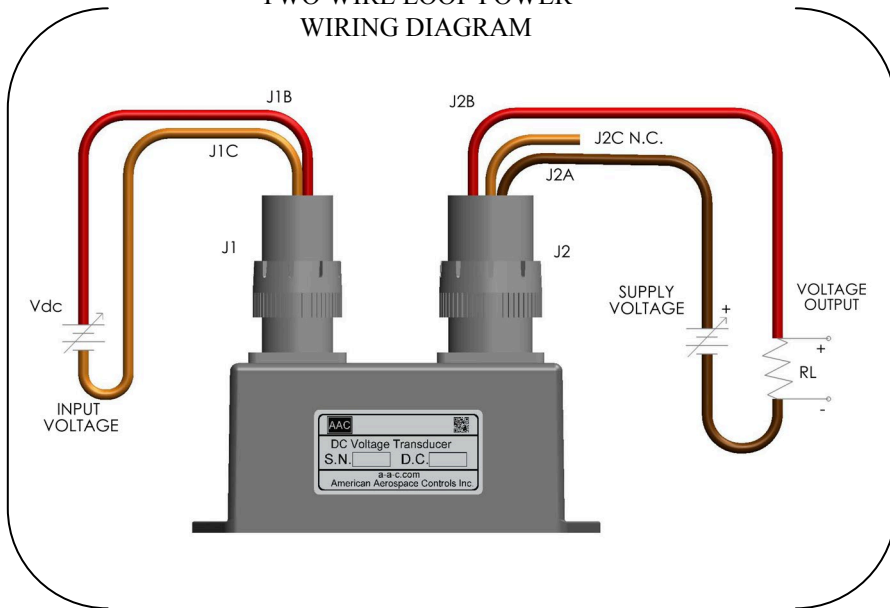
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Features:

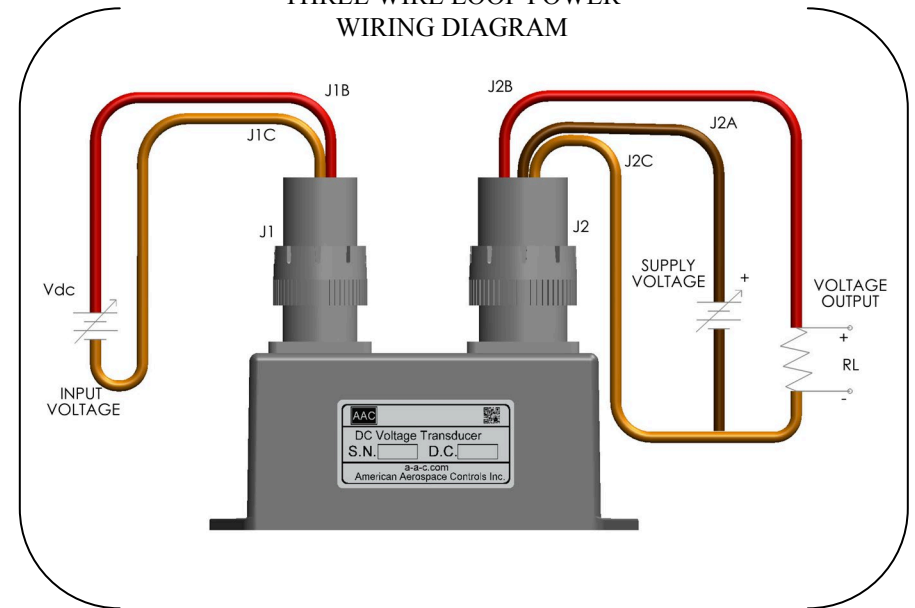
- High precision voltage measurement capability. (0.5% over temperature range)
- 2 wire loop power operation.
- 13 models for voltage measurements of 10 TO 2000Vdc.
- Galvanic isolation between voltage input and output signal.
- Wide temperature range -40° C TO +85° C.
- 100% Electronic design.
- 5 Year warranty.

**DC VOLTAGE TRANSDUCER
SERIES S657
WIRING DIAGRAM
LOOP POWER TWO & THREE WIRE
4 to 20 mA OUTPUT**

**TWO WIRE LOOP POWER
WIRING DIAGRAM**



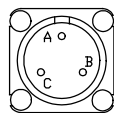
**THREE WIRE LOOP POWER
WIRING DIAGRAM**



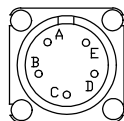
TERMINAL IDENTIFICATION

J1

- J1-A. SPARE
- J1-B. INPUT VOLTS (+/-)
- J1-C. INPUT VOLTS (+/-)



J1
DEUTSCH
CONNECTOR
HD10-3-96P
MATING
CONNECTOR
HD16-3-16S



J2
DEUTSCH
CONNECTOR
HD10-5-16P
MATING
CONNECTOR
HD16-5-16S

TERMINAL IDENTIFICATION

J1

- J2-A. SUPPLY VOLTS (+)
- J2-B. OUTPUT SIGNAL (+)
- J2-C. SUPPLY & OUTPUT (RTN)
- J2-D. SPARE
- J2-E. SPARE

SHEET 2 OF 2	AAC	DRAWING NUMBER S657	REV. T
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