10ID70X SERIES

DC VOLTAGE TRANSDUCER
SUBSTATION BATTERY MONITOR

DESCRIPTION:

The input to output isolation makes the 10ID700 Series particularly useful as a substation battery monitor for SCADA systems. The transducer can be scaled for all common battery voltages. A typical transducer generates a 0-1mA output for a 0-125VDC input. The transducer's input terminals, which are connected to the battery, are completely isolated from the output terminals, which are connected to the SCADA RTU to prevent any dangerous ground loops between the battery and RTU.

SPECIFICATIONS:

Overload with Linearity	0 – 200% of rated input
Overload without Damage	3 times rated input for voltage input
Rated Output	0 – 1mA, 4 – 20mA
Output Load (Max)	10k Ohms (11 Volt compliance for 1mA outputs)
	1500 Ohms (30 Volt compliance for 20mA outputs)
Accuracy	+0.05% Reading +0.01%R.O. @ 25°C
Temperature Range	-20°C to +70°C
Temperature Influence	+0.005% / °C max
A.C. Component (Peak)	< 0.5% R.O.
Response Time to 99% of Final Value	< 400mS
Auxiliary Power	85 – 135VAC, optional DC inputs ranging from 18 – 150VDC
	50 – 400Hz, <7 VA for 20mA models, < 5VA for other models
Calibration Adjustment	+10%
Zero Adjustment	None for 1mA outputs
	+5% for 20mA outputs
Dielectric Test–between input/output/case	2000 Volts RMS
Surge Withstand Capability – between input/output/case	5000 Volts Peak
Weight	2 ¼ pounds (1.02kg)

ORDERING INFORMATION:

0 – 1mA Rated Output: **10ID70X** _____ - _____
                                              Rated DC Voltage   DC Aux. Power
                                               Input Option   Input Option

4 – 20mA Rated Output: **10ID71X** _____ - _____
                                              Rated DC Voltage   DC Aux. Power
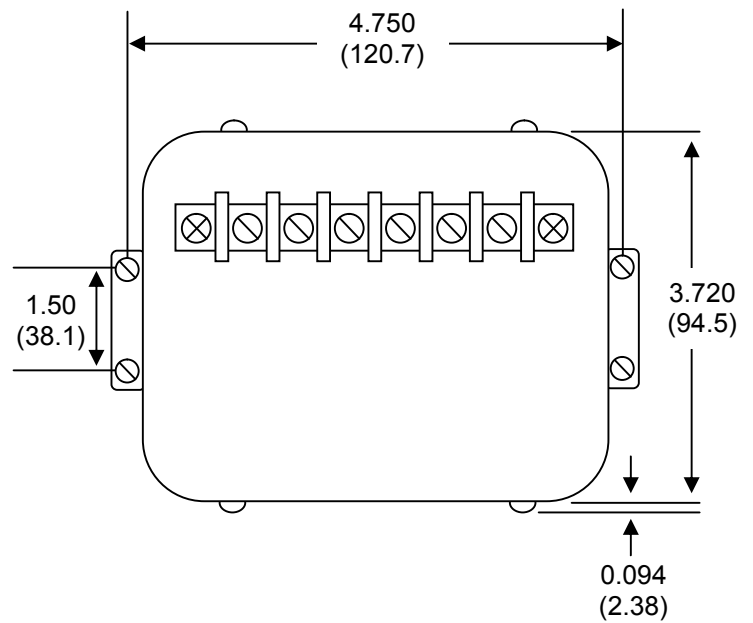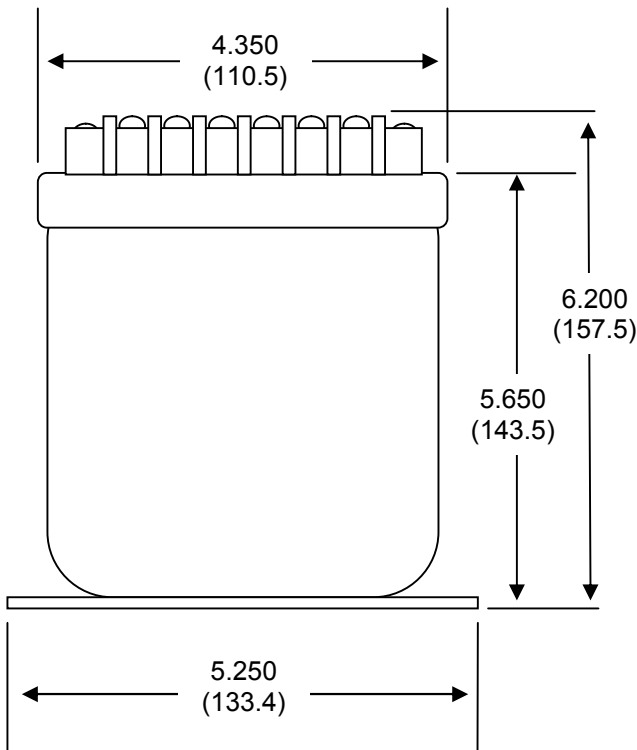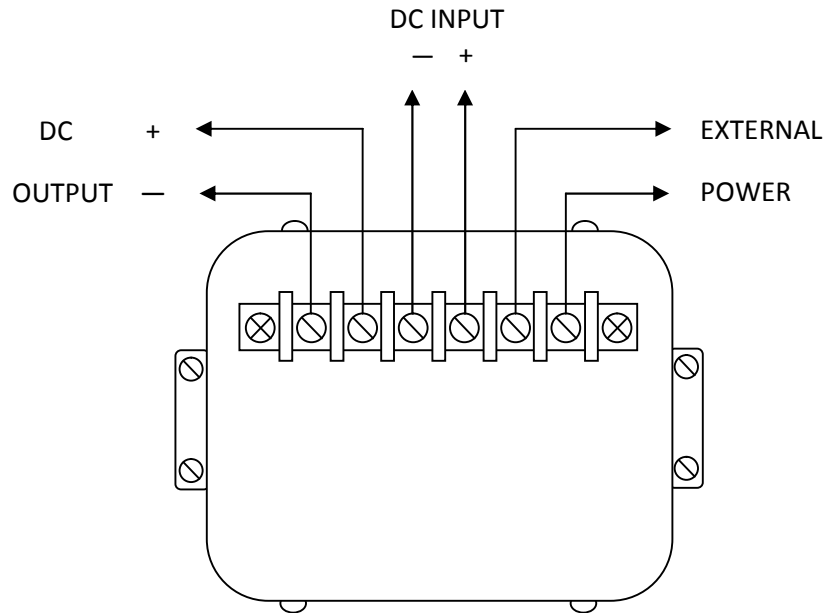   Input Option   Input Option

Rated DC Voltage Input Options		**DC Aux. Power Input Options (leave blank if not applicable)**
24 = 24 VDC	125 = 125 VDC	36150 = 36 – 150 VDC aux power
30 = 30 VDC	130 = 130 VDC	100340 = 100 – 340 VDC aux power
48 = 48 VDC	150 = 150 VDC	3672 = 36 – 72 VDC aux power
60 = 60 VDC	OTHER = Specify to 500 VDC	1836 = 18 – 36 VDC aux power

Example:
10ID70X-150-DC36150 = DC Voltage transducer with 0-1mA output for 0 – 150VDC battery bank measurement, and includes an auxiliary DC power range of 36 – 150VDC.

TransData

DC INPUT
— +

DC + → EXTERNAL

OUTPUT — → POWER

4.350
(110.5)

6.200
(157.5)

5.650
(143.5)

5.250
(133.4)

4.750
(120.7)

1.50
(38.1)

3.720
(94.5)

0.094
(2.38)

NOTE: DIMENSIONS ARE IN INCHES AND (MM)
Mounting holes (4) are 3/16" in diameter. Can is steel with integral mounting flanges. Terminal screws are 8-32 binding head.

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