



## ET7S - Isolating Electrical Transmitters

ET7S10: Loop Powered

ET7S11: Aux Powered

Most compact, comprehensive and cost effective

ET7S10-11 is a universal rugged 2 wire isolator designed to accept custom built ranges of voltage and current input signals. Signal is then isolated and converted to standard instrumentation signals, acceptable to commercially off the shelf (COTS) automation products.

Masibus' ET7S enables analog signals to transmit without galvanic connections between the field and the receiving instrument. This in turn allows ground or reference levels to float up to thousands of volts at its input terminals, and prevents circulating current between differing ground potentials that can contaminate input signal. It will isolate the contaminated signal to a clean signal for accurate measurement and control application.

Isolation provided by this signal isolator saves the control system from damage due to accidental application of high voltage or induced voltages on the input signal and in turn avoids wrong output signals to process.

The Isolator provides a good protection for sensitive system parts against voltage spikes etc.

It offers excellent accuracy and stability for reliable operation in hostile environments and full isolation safely separates input, output and the power supply.

### Features

- Loop/Aux Powered
- V/I input selection by DIP switch
- Input/output galvanic isolation
- 0.1% accuracy
- SLIM Housings
- Front accessible Zero/ Span potentiometers

### Applications

- Signal Isolation between system & field
- Safety of high cost equipment
- Remove high common mode voltage
- Eliminate ground loop currents
- Translate signal from voltage to current
- Reduce wiring costs

## Technical Specifications:

### Input

**Input** (Dip switch selectable)

Current	0 to 20mA, 4 to 20mA
Voltage	1 to 5V, 0 to 10V

### Impedance

Current	ET7S10:100 Ω ET7S11:47 Ω
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Voltage	>1M Ω
CMRR	>100dB
NMRR	>50dB

### Output

<b>ET7S10</b>	4-20mA
Load	(Loop Supply -7.5V)/0.020mA max Current Limit - 26mA
<b>ET7S11</b>	4-20mA, 0-20mA, 1-5V, 0-10V (Factory set)
Load	Current - 750Ω max Current limit - 26mA Voltage - 5KΩ min
Accuracy	0.1% of span
Temp-co	<150 ppm
Response time	<50mS
Calibration	Front panel potentiometers
Isolation (Input/output/supply)	1.5KVAC

### Power Supply

ET7S10	7.5-36VDC Loop supply
ET7S11	18-36VDC Aux supply

### Environmental

Operating temperature	0 to 55 °C
Storage temperature	-10 to +70 °C
Humidity	30 to 95% (Non-condensing)

### Enclosure Color

ET7S10	Green
ET7S11	Grey

### Weight

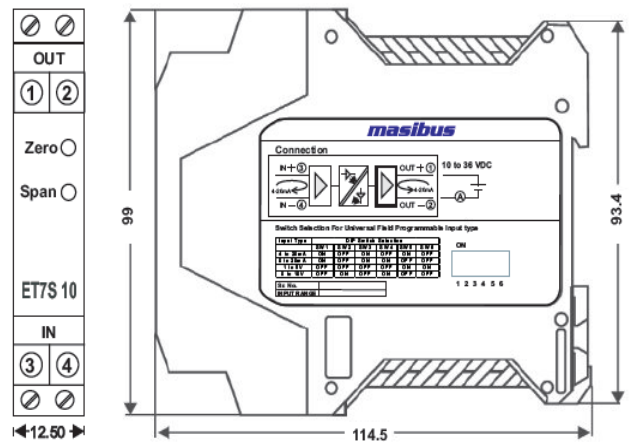
ET7S10	90gm
ET7S11	100gm

### Mounting

ET7S10 / 11	35mm DIN Rail
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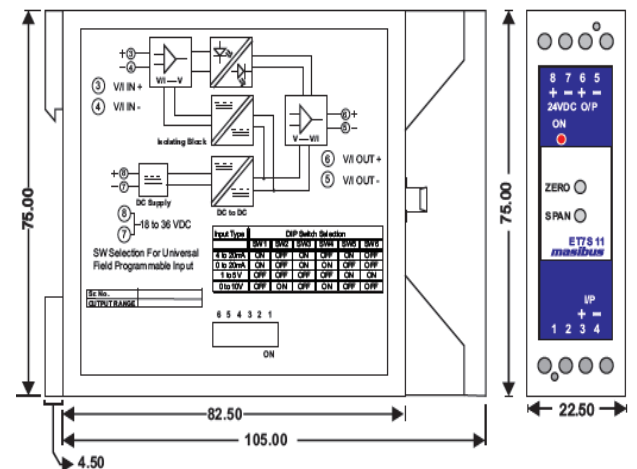
### Dimensions

ET7S10 (12.5 X 99 X 114.5 mm)



### Dimensions

ET7S11 (22.5 X 75 X 110mm)



Ordering Code						
Model	Supply		Input		Output	
ET7S	10	Loop	1	4-20mA	1	4-20mA
	11	Aux	2	0-20mA	2	0-20mA
			3	1-5V	3*	1-5V
			4	0-10V	4*	0-10V
					5*	0-5V

\*Available in AUX powered Module ET7S11 only

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All specifications are subject to change without notice due to continuous improvements.  
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