

# SLIMCON-6

## ISOLATING SIGNAL CONVERTER



- Wide Range of Inputs Available
- Full 3 Port Isolation
- Zero and Span Pots for Output
- Fast Time Response
- High Accuracy, Low cost
- Only 7.2mm Wide



### Description

The SLIMCON family of isolating Signal Converters can accept a range of inputs including 4- 20mA and voltage signals. The unit produces a high level DC output of either voltage or current.

Full 3 port isolation is standard on the product range.

The SLIMCON can be factory configured to accept a current or voltage input and provides a current or voltage output.

The Input and Output of the unit can also be reconfigured using the built-in switches together with the zero and span adjustment potentiometers.

The unit is powered from 24Vdc nominal.

### Inputs

Standard Ranges are shown below – contact Sales or Tech Support.

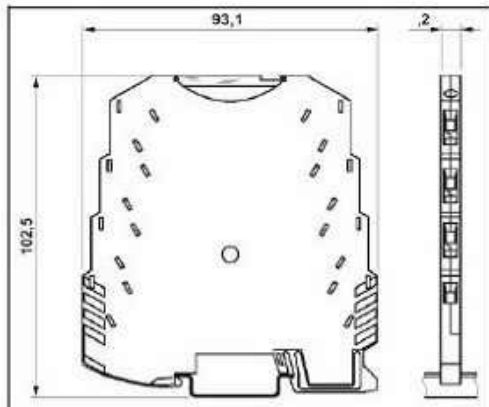
SLIMCON for DC Current & Voltage  
0-20mA, 4-20mA, 0-10mA Into 5 ohm /11ohm  
0-10V, 1-5V, 2-10V into 1M ohm

Bipolar Voltage Input version available, please call IMO.

Outputs  
DC Current and Voltage  
Current source or sink  
0-20ma, 4-20mA into 500 ohm  
0-10V, 0-5V into a minimum 100K ohm

## Performance Specifications:

Parameter	Min	Typ	Max	Comments
Supply Voltage	18V	24V	30V	22Vdc required to drive 500 ohms
Supply Current (mA)		25	30	Based on 24V dc supply into 500 ohms
Input Impedance (Volt)		500k ohms		
Input Impedance (mA)		5 ohms	10 ohms	Dep't on Range (Typ=20mA, max 0-10mA)
Volt drop (mA Input)		0.1	0.15	At 20mA input
Output Linearity Error		±0.03%	±0.1%	
Temp Coefficient			±100ppm/°C	
Load Resistance Error			±5ppm/ohms	0 < R <sub>L</sub> < 500 ohms
Time Constant (10-90%)		25mS	30mS	Faster response available on request
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage	1kV			
Surge Voltage	2.5kV for 50µS			Transient of 10kV/µS
Notes	<p>Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur.</p> <p>Accuracy figures based on 24Vdc supply, 4-20mA with 250 ohms load and 20°C ambient.</p> <p>Device is protected against reverse polarity connection. External 100mA fuse required</p> <p>SLIMCON does NOT provide safety isolation when the input is connected to the mains.</p>			



### Installation Data

Mounting	DIN Rail TS35
Orientation	Any
Connections	Screw Clamp with pressure plate
Conductor Size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx. 60g

### Connection Details

1. Power Supply -ve
2. Power Supply +ve
4. Process Input -ve
5. Process Input +ve
10. Output -ve
11. Output +ve

### Ordering Information

Please supply:

Part Number:	SLIMCON-6
Input Type:	e.g. mA, Volt
Input Range:	e.g. 4-20, 0-10
Output Type:	e.g. ma, Volt
Output Range :	e.g. 4-20mA, 0-10V
Power Supply:	e.g. 24Vdc
Isolation:	Full 3-Port