

SLIMCON-6-FAST

Isolating Signal Converter

IMO

Technical Datasheet

Key Features

- Wide Range of Inputs Available
- Full 3-Port Isolation
- Zero & 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 for more.

SLIMCON for DC Current & Voltage

0-20mA, 4-20mA, 0-10mA into 5 Ω /11 Ω

0-10V, 1-5V, 0-5V, 2-10V into 1M Ω

Bipolar Voltage Input version available, please call.

Outputs

DC Current & Voltage

Current source or sink

0-20mA, 4-20mA into 500 Ω

0-10V, 0-5V, 1-5V into a minimum 100k Ω

Technical Specifications

Parameter	Minimum	Type	Maximum	Notes
Supply Voltage	18V	24V	30V	22VDC required to drive 500Ω
Supply Current (mA)		25	30	Based on 24VDC supply into 500Ω
Input Impedance (Volt)		500kΩ		
Input Impedance (mA)		5Ω	10Ω	dependant upon range (Typ=20mA, max 0-10mA)
Volt Drop (mA input)		0.1	0.15	At 20mA input
Output Linearity Error		±0.03%	±0.01%	
Temperature Coefficient			±100ppm/°C	
Load Resistance Error			±5ppm/Ω	0<R _L <500Ω
Time Constant (10-90%)		5ms		Special response time for -FAST Version
Operating Ambient	0°C		55°C	
Relative Humidity	0%		90%	
Isolation Voltage*	1kV			
Surge Voltage	2.5kV for 50μs		Transient of 10kV/μs	
Notes	*Absolute maximum ratings indicate sustained limits beyond which damage to the device may occur. Accuracy figures based on 24VDC supply, 4-20mA output with 250Ω load and 20°C ambient. Device is protected against reverse polarity connection. External 100mA fuse required SLIMCON does NOT provide safety isolation when the input is connected to the mains			

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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
2.	Power Supply
4.	Process Input
5.	Process Input
10.	Output -VE
12.	Output +VE

Ordering Information

Please Supply:	
Part Number:	II-SLIMCON-6-AA-000
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 Range:	e.g. 24VDC
Isolation:	Full 3-Port

Dimensions (mm)

