

## ISOSLICE-2

### ISOLATED BUS I/O MODULE



- 8 off 4-20mA or Voltage Inputs
- Communicates to Ethernet / RS232 or RS485 network via an E-100 unit
- Inter-channel & input/output isolation
- Automatic Bus & Power connection via DIN rail bus connector
- Multiple inputs in one module
- Very High Accuracy, Low Cost

#### Description

The ISOSLICE-2 isolated Bus I/O module combines full three-port isolation with access to an industrial bus. This bus connects to the E-100 or Z-PORT coordinator modules which are then used to transmit the process values via either an Ethernet or a RS232/485 wired communications network.

Full 3 port isolation is standard but for channel to channel isolation please see the ISOSLICE-1

The input type and range can be user selected using simple DIL switches inside the unit and the unit is factory calibrated for 4-20mA and 0-10V inputs.

Non-interactive zero and span controls make adjustment and calibration of the unit quick and simple.

The units have a wide ranging 12 to 36 Vdc. This supply can either be wired to the appropriate terminals or picked up automatically from the Bus connector.

#### Outputs

For Output modules see Isoslice-6 or Isoslice-8

#### Input Types For Isoslice-2

##### DC/AC Current & Voltage

0-20mA, 4-20mA, 0-10mA into 15Ω

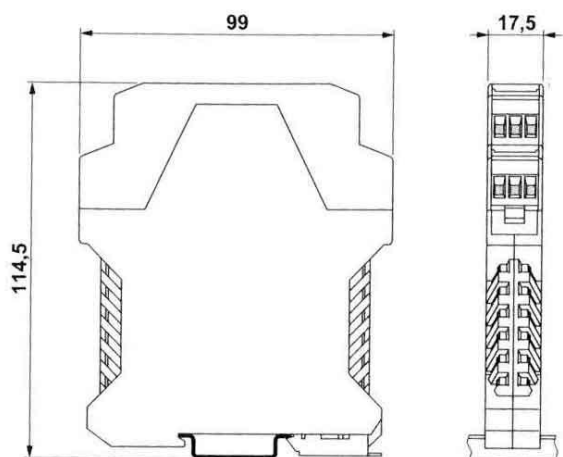
0-1V, 0-10V, 1-5V into 1MΩ

Min & Max Full Scale Ranges are:

DC Current	0 - 1mA	0 - 20mA
DC Voltage	0 - 1V	0 - 40V

## Technical Specifications

Parameter	Min	Typ	Max	Comments
Supply Voltage	12	24V	36Vdc	
Supply Current (mA)		45	90	For 24 V dc supply (260mA for 50mS on start up)
Bus Connection				16-bit bus connection
Input Impedance (Volt)		1 M $\Omega$		Dependent on range (Typ=10V)
Input Impedance (mA)		15 $\Omega$		Dependent on range (Typ=20mA)
Volt drop (mA input)		0.3		At 20mA input
Output Linearity Error		$\pm 0.01\%$	$\pm 0.05\%$	
Temp Coefficient			$\pm 50\text{ppm}/^\circ\text{C}$	
Load Resistance Error			$\pm 5\text{ppm}/\Omega$	$0 < R_L < 750\Omega$
Time Constant (10-90%)		60ms (normal)		
Operating Ambient	0 $^\circ\text{C}$		55 $^\circ\text{C}$	
Relative Humidity	0%		90%	
Isolation Voltage <sup>see note 1</sup>	1kV			
Surge Voltage		2.5kV for 50 $\mu\text{S}$		Transient of 10kV/ $\mu\text{S}$
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 250 $\Omega$ load and 20 $^\circ\text{C}$ ambient. Device is protected against reverse polarity connection.			



## 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 95g

## Input and Output Options

Part Number	Universal inputs	mA or V inputs	RTD inputs	Thermocouple inputs	Analogue Outputs	Digital inputs	Digital outputs
ISOSLICE-1	2						
ISOSLICE-2		8					
ISOSLICE-3			4				
ISOSLICE-4				4			
ISOSLICE-5						8	
ISOSLICE-6							4
ISOSLICE-7						2 x Freq / Pulse	
ISOSLICE-8					4		
ISOSLICE-9	4 x AC I/V						
ISOSLICE-10	8 x AC I/V						

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