

VOLTCON

High Level Voltage Monitor



- Output Proportional to RMS or DC Voltage Input
- Input-Output Isolation to 1kV
- CE Marked for the EMC Directive
- Compact and Highly Competitive
- Zero and Span Adjustments

Description

This range of isolated signal converters can accept a wide range of AC and DC voltages and provide an isolated 4-20mA output.

The device uses a true RMS input stage which allows accurate measurement of non-perfect AC waveforms.

The inputs of the device are connected directly to the power rail to be measured and the outputs, which are always in the range 4-20mA and proportional to the inputs, are connected to the data acquisition equipment. The input voltage measurements are totally isolated and protected with failsafe resistor networks.

All units offer isolation between input and output, power and input and power and output.

The output is typically a 4-20mA dc signal for connection to data acquisition systems used in railway monitoring.

To cover typical railway power supplies the following devices with the input ranges shown should be used.

Inputs

The Input types and ranges included below are our standard ones only.

Please contact our Sales Department for details on any application not specified below.

Typical Device Input Range
720 Vrms
720 Vrms
150 Vrms
500 Vdc
150 Vdc
60 Vdc
60 Vdc
60 Vdc

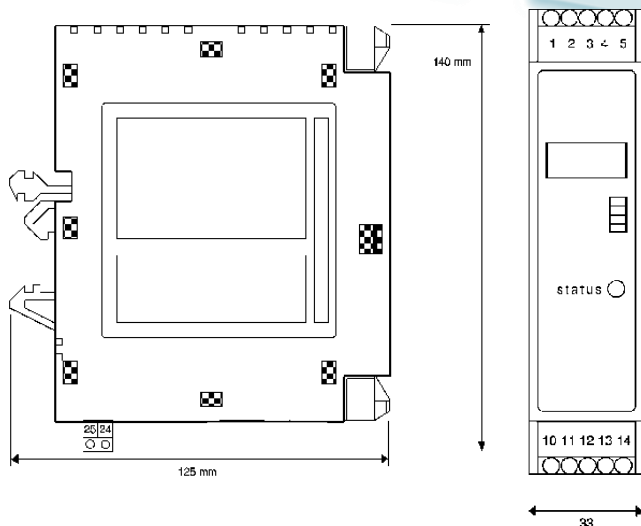
Output

4-20mA into 1k Ω maximum

Performance Characteristics

Parameter	Min	Typ	Max	Comments
Supply Voltage		24V dc		
Supply Current		50mA	100mA	Based on 24V dc supply
Response Time (0-90%)		100mS		
Output Inaccuracy		±0.03%	±0.5%	Smaller signals can be converted with less accuracy and longer response time
Operating Ambient	0°C		55°C	
Storage Temperature	-10°C		70°C	
Relative Humidity	0%		90%	

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 output with 250Ω load and 20°C ambient.</p> <p>Device is protected against reverse polarity connection.</p> <p>The unit does not provide safety isolation when the input is connected to mains voltages.</p>
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Installation Data

Mounting	DIN Rail TS32/35
Orientation	Any
Connections	Screw Clamp with pressure plate
Conductor size	0.5-4.0mm
Insulation Stripping	12mm
Weight	Approx 180g

Connection Details

Input	
10	Input -ve
14	Input +ve
4	Output -ve
5	Output +ve
24	Power Supply -ve
25	Power Supply +ve

Ordering information

Please supply	
Part Number:	VOLTCON
Input Range:	e.g. 750Vrms (750AC) or 60Vdc (60DC)
Power Supply:	24Vdc (24) 115Vac (115)
eg Typical Part Number With 150Vac rms voltage and 24Vdc supply	VOLTCON-150AC-24