

# CAL MAXVU RAIL

## Temperature Limit Device Datasheet



## Overview

MAXVU Rail temperature and process limit is a device that's easy to install and fast to setup with an easy to read OLED display.

MAXVU Rail provides an affordable solution where secondary temperature limit protection is required, it offers a universal input and up to 3 outputs.

## At a Glance

- DIN rail mounted
- Universal input
- Up to 3 outputs
- Digital Input
- RS485 communications option
- Fast configuration
- Clear OLED display
- 22.5mm module width

## Specification

### Input

Thermocouple	• J, K, C, R, S, T, B, L, N.
RTD	• 3 Wire PT100
DC Linear	• 0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. • Scalable -1999 to 9999, with adjustable dec point
Accuracy	• Thermocouple $\pm 0.25\%$ of full range $\pm 1$ LSD ( $\pm 1^\circ\text{C}$ for thermocouple CJC). PT100 $\pm 0.25\%$ of full range, $\pm 1$ LSD, Linear $\pm 0.25\%$ of full range, $\pm 1$ LSD.
Sampling	• 4 per second
Impedance	• $>10\text{M}\Omega$ resistive, except DC mA ( $5\Omega$ ) and V ( $47\text{K}\Omega$ )
Sensor Break Detection	• $<2$ seconds (except zero based DC ranges), high alarms activate for T/C, RTD and mV ranges, low alarms activate for mA or V ranges
Digital Input	• Reset Alarm. Volt Free or TTL compatible, 24VDC

### Outputs & Options

Relay	• LIMIT SPDT Form C, AL1 / 2 SPST Form A relay; current capacity 2A at 250V. $>150,000$ operations at rated voltage/current, resistive load
SSR	• Drive capability $>10\text{V DC @ } 20\text{mA}$
Linear DC	• 0 to 20mA, 4 to 20mA, 0 to 5V, 0 to 10V or 2 to 10V • Current Output $500\Omega$ max, Voltage Output $500\Omega$ min
Serial Communications	• 2 Wire RS485, 1,200 to 38,400 baud, Modbus RTU

## Key Features

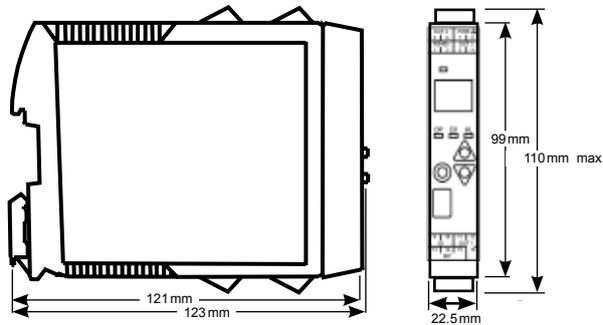
- Text / Icon matrix display
- Quick setup menu with main configuration parameters
- Thermocouple, PT100 or linear DC sensor input
- Up to 3 outputs; relay, SSR or Linear DC
- Isolated Digital input
- Limit alarm plus warning, high/low or deviation
- 3 button operation
- 3 status LEDs
- Front panel configuration or via PC configuration software
- RS485 Modbus RTU communications

## Specification

### Operating and Environmental

<b>Temperature &amp; RH</b>	0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing
<b>Altitude</b>	<2000M
<b>Power Supply</b>	100 to 240V ±10%, 50/60Hz, 9VA(mains powered version) 24V DC/AC +10%/-15%, AC 50/60Hz, 5W (low voltage version)
<b>Enclosure Protection</b>	IP20
<b>Standards</b>	CE, UL, cUL & FM
<b>EMI</b>	Complies with EN61326-1 (Susceptibility & Emissions)
<b>Safety Considerations</b>	Complies with EN61010-1 & UL61010-1 Pollution Degree 2, Installation Category II
<b>Weight</b>	0.20kg excluding packaging

## Dimensions



## Ordering Code

**MVR - 1 T x - x x x x - 5 x U 0 xxxx**

### Digital Input

Isolated

1

### Supply Voltage

110 to 240V AC

24V AC / DC

M

L

### Manual / HMI Language

1 English

2 French

3 German

### Output

**LIMIT**

**AL1**

**AL2 / PV**

C/O Relay

Relay

None

Z R 0

C/O Relay

Relay

Relay

Z R R

C/O Relay

SSR

Linear

Z A L

C/O Relay

Relay

Linear

Z R L

C/O Relay

SSR

None

Z A 0

C/O Relay

SSR

Relay

Z A R

### Option Slot 2

0 Not Fitted

C RS485 Communications

## Accessories

### MAXVU Configuration software

For PC setup MAXVU configuration software is available free of charge from [www.west-cs.co.uk](http://www.west-cs.co.uk).

A USB configuration adaptor is also available from your local WCS distributor.



MAXVU configuration software is simple to use for fast set up of MAXVU devices.



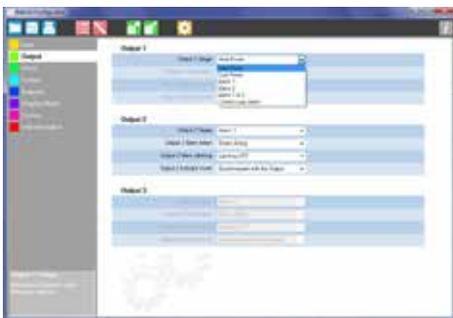
Set-up wizard simplifies the set-up further.

Provides step-by-step guidance to device configuration with detailed assistance on each setting.



Clear and logical side tabs make it easy to find parameter settings in tabular form.

Simple icon driven taskbar along top for all main functions



Each parameter shows current setting and can easily be changed by drop-down menus or entering values.

Allowable setting range is shown for guidance.

A useful help box provides additional assistance.

## Contact



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