CAL MAXVU RAIL

Temperature Controller / Transmitter Datasheet





Overview

MAXVU Rail temperature and process controller is a behind panel DIN-rail mounted device that's easy to install and fast to setup with an easy to read OLED display.

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

The unit also has a transmitter mode disabling control for temperature and process measurement applications.

Specification

Input

Thermocouple J, K, C, R, S, T, B, L, N.

• 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 ±0.25% of full range ±1 LSD (±1°C)

for thermocouple CJC). PT100 ±0.25% of full range, ±1LSD, Linear±0.25% of full range, ±1LSD.

range, ±123D, Linear±0.23 / or full

Sampling 4 per second

Impedance >10M Ω resistive, except DC mA (5 Ω) and V

 $(47K\Omega)$

Sensor Break <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, Control enable/disable, Auto/

Manual control, Tune start/stop. Volt Free or TTL

compatible, 24VDC

Outputs & Options

Relay OUT1 SPDT Form C, OUT2 / 3 SPST Form A

relay; current capacity 2A at 250V. >150,000

operations at rated voltage/current, resistive load

SSR Drive capability >10V DC @ 20mA

Linear DC 0 to 20mA, 4 to 20mA, 0 to 5V, 0 to 10V or 2 to 10V

Current output 500Ω max, Voltage output 500Ω min

Serial

Communications 2 Wire RS485, 1,200 to 38,400 baud, Modbus RTU

At a Glance

- · DIN rail mounted
- PID or ON/OFF control
- Universal input
- Up to 3 outputs
- Digital Input
- RS485 communications option
- Transmitter mode
- Fast configuration
- Clear OLED display
- 22.5mm module width

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
- High/low, deviation or band alarms
- 3 button operation
- 3 status LEDs
- Front panel configuration or via PC configuration software
- RS485 Modbus RTU communications

Specification

Operating and Environmental

Temperature & RH 0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing

Altitude • <2000m

Power Supply 100 to 240V ±10%, 50/60Hz, 9VA(mains powered version)

24V DC/AC +10%/-15%, AC 50/60Hz, 5W (low voltage version)

Enclosure Protection • IP20

Standards • CE, UL & cUL

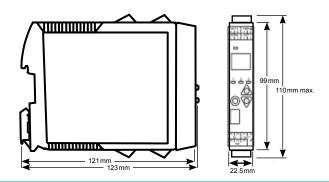
Complies with EN61326-1 (Susceptibility & Emissions)

Safety Complies with EN61010-1 & UL61010-1
Considerations Pollution Degree 2, Installation Category II

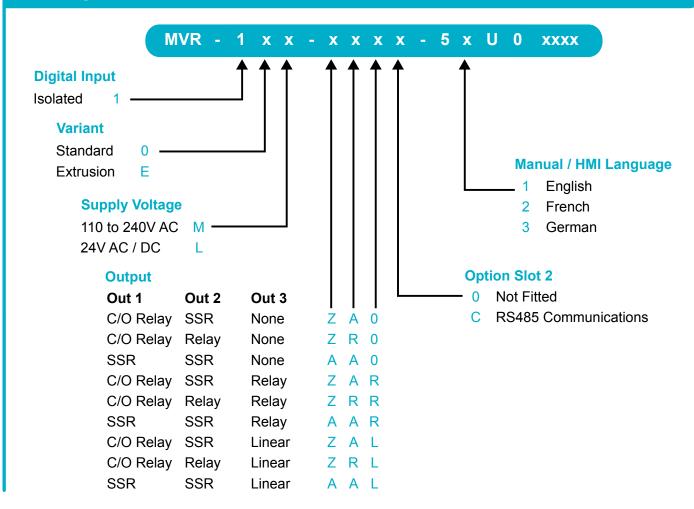
Weight • 0.20kg excluding packaging

Communications RS485 Modbus RTU communication option

Dimensions



Ordering Code



Accessories

MAXVU Configuration software

For PC setup MAXVU configuration software is available free of charge from 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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