CAL MAXVU Datasheet

Temperature and Process Controller

WEST *Control Solutions*

Overview

MAXVU has been designed to offer essential temperature control in a device that's easy to install, fast to program and with improved display visibility.

MAXVU provides an affordable solution for applications where primary temperature control functions such as heat only or heat/cool are needed, it offers a universal input and up to 3 outputs with a choice of either relay or SSR.

Typical applications include packaging processes such as sealers and many more.

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 decimal point
Accuracy	Thermocouple ±0.25% of full range ±1 LSD (±1°C for thermocouple CJC). PT100 ±0.25% of full range, ±1LSD, DC Linear±0.2% of full range, ±1LSD.
Sampling	4 per second
Impedance	>10MΩ resistive, except DC mA (5Ω) and V (47KΩ)
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

Outputs & Options

Relay	SPST Form A relay; current capacity 2A at 250VA. >150,000 operations at rated voltage/current, resistive load
SSR	Drive capability >10V DC @ 20mA
Serial Communications	2 Wire RS485, 1,200 to 38,400 bps, Modbus RTU

At a Glance

- **1/8 DIN (96 x 48mm) and 1/16 DIN (48 x 48mm)**
- **Universal input**
- **Up to 3 outputs**
- **RS485 communications option**
- **Selectable indicator mode**
- **Fast configuration**
- **Large clear display**
- **Depth 67mm**

Key Features

- **High visibility 18mm display digits (10.2mm lower display 1/16 DIN)**
- **Quick setup menu with top 10 configuration parameters**
- **Thermocouple, PT100 or linear DC sensor input**
- **Up to 3 outputs, relay or SSR**
- **2 process alarms, high/low, deviation or band.**
- **3 button operation**
- **2 x 4 digit display and 3 output status LEDs**
- **Front panel configuration or via PC configuration software**
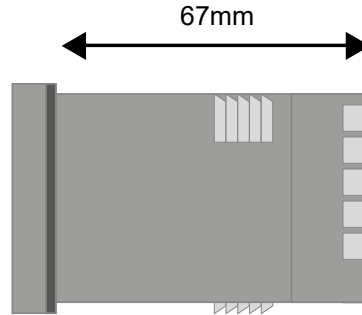- **RS485 Modbus RTU communications**

Specification

Operating and Environmental

Temperature & RH	0 to 55°C (-20 to 80°C storage), 20% to 95% RH non-condensing
Power Supply	100 to 240V 50/60Hz (mains powered version)
	24V DC/AC +10%/-15%, AC 50/60Hz (low voltage version)
Front Panel Protection	IP65 (Behind panel IP20)
Standards	CE, UL & cUL
EMI	Complies with EN61326 (Susceptibility & Emissions)
Safety Considerations	Complies with EN61010-1 & UL61010-1
	Pollution Degree 2, Installation Category II
Weight	1/8 DIN, 0.12kg excluding packaging
	1/16 DIN x 0.08kg excluding packaging
Communications	RS485 Modbus RTU communication option

Dimensions

Front Fascia	1/16 DIN = 48 x 48mm
	1/8 DIN = 96 x 48mm

67mm

Ordering Code

MV - xx 0 x - x x x x - 2 x U 0 xxxx

Format

1/16 DIN, 48 x 48mm	16
1/8 DIN, 96 x 48mm	08

Supply Voltage

110 to 240V AC	M
24V AC / DC	L

Output

Out 1	Out 2	Out 3			
SSR	SSR	None	A	A	0
SSR	Relay	None	A	R	0
Relay	Relay	None	R	R	0
SSR	SSR	Relay	A	A	R
SSR	Relay	Relay	A	R	R
Relay	Relay	Relay	R	R	R

Option Slot 2

0	Not Fitted
C	RS485 Communications

Manual Language

1	English
2	French
3	German
4	Italian
5	Spanish
6	Chinese

Terminal Cover

blank	Not Fitted
S415	Fitted

MAXVU Configuration software

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 controller guration with detailed assistance on each setting.

Clear and logical side

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

For additional information or product support contact:

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