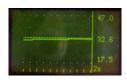




ProVU4 Compact Controller







- Single loop temperature / process controller
- LCD graphic display with red/green blacklight
- 1/4 DIN (96 x 96mm)
- Ramp soak profile with timed delay
- 30mm depth behind panel
- Universal Input & 4 Outputs

An easy-to-use controller with many features to simplify operation. A set-up wizard aids configuration of the controller on first power-up and operation is intuitive with text language screens with logical menu navigation. The ProVU4 compact is ideal for OEM applications where space is limited, the fixed build open PCB design has a panel depth of only 30mm.

Specification

Features

Display Languages Control Types Ramp / dwell Program

Trending

Output Configuration

Input

Thermocouple RTD DC Linear

Impedance Accuracy Sampling

Sensor Break Detection

Control

Tuning Types: **Proportional Bands** Automatic Reset:

Rate:

Manual Reset: Differential: Approach Control

Cycle Time:

Alarms

Alarm types

Outputs Control Output:SSR Driver Relays

160 x 80 pixel, monochrome graphic LCD with a dual colour (red/green) backlight

English, Russian

Full PID with Pre-tune, Manual tuning, or On-Off control. Single control output

Ramp rate selectable 1 to 9999 LSD per hour and infinite (step), Delay timer and dwell settings HH:MM:SS or continuous soak

120 of 240 point trending point shown on a scrollable window with autoscaling. Record active alarms plus SP & PV or Max/Min PV between samples. Trend sample rates 1;2;5;10;15;30 sec or mins.

4 outputs fixed operation,

Control output - SSR driver, Output 2 - Alarm relay, Output 3 - Event/Fan relay and Output 4 - End of program relay

J, K, B, C, D, E, J, L, N, R, S, T, PtRh 20%:40%

3 Wire PT100, 50Ω per lead maximum (balanced)

0 to 20mA, 4 to 20mA, 0 to 50mV, 10 to 50mV, 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V. Scaleable -9999 to 10000, with adjustable decimal point to 3 places with 5 display digits

>10M Ω resistive, except DC mA (5 Ω) and V (47k Ω).

 $\pm 0.1\%$ of full range, ± 1 LSD (thermocouple ± 1 °C for internal CJC)

4 per second, 16 bit resolution

Thermocouple & RTD - Control goes to off. High alarms activate.

Linear (4 to 20mA, 2 to 10V and 1 to 5V only) - Control goes to off. Low alarms activate.

Automatic Pre-Tune and Manual Tuning.

0.5% to 999.9% of input span in 0.1% increments, or On/Off control.

Integral Time Constant, 1s to 99min 59s and OFF Derivative Time Constant, 1s to 99 min 59s and OFF Proportional Output Power Bias 0 to 100%.

ON/OFF switching differential 0.1% to 10.0% of input span

10 to 100. Larger values bias the approach control for greater speed to setpoint, smaller values bias

for overshoot suppression.

Selectable from 0.5 to 512 seconds.

Process High, Process Low, Band and Deviation. Band and Deviation (high or low) alarm values are relative to the current setpoint value. Hysteresis; A dead-band from 1 LSD to full span (in display units) before deactivation of the alarm.

Drive capability >10V DC in 500Ω minimum, non-isolated

Contacts SPST 2 Amp resistive at 120/240V AC, >500,000 operations, reinforced safety isolation from power / signal inputs and SSR driver output, basic isolation between relays.





Operating and Environmental

Temperature & RH 0 to 60°C (-20 to 80°C storage), 20% to 95% RH non-condensing

Power Supply 100 to 240V 50/60Hz $\pm 10\%$, 7.5VA

Front Panel Protection IP6

Conformance

EMI: Complies with EN61326.

Safety Considerations: Complies with EN61010-1. Pollution Degree 2, Installation Category II.

Weights & Dimensions

Weight: 0.2kg maximum.

Dimensions

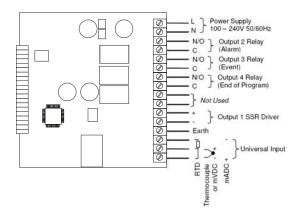
96 x 96mm (Front Bezel). 30mm (Depth Behind Panel).

Mounting Panel:
Panel must be rigid. Maximum thickness 2.0mm.

Panel Cut-out Size:
92mm x 92mm. Tolerance +0.5, -0.0mm.

Ventilation
20mm gap required above, below and behind.

Wiring Connections



Ordering Code

Part Code	Description
VC0C00211110	ProVU4 Compact Controller, English Language
VC0C002111R0	ProVU4 Compact Controller, Russian Language

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