ProVU



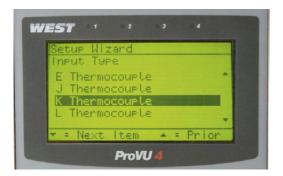
Advanced process controller

Profiler
Data-logger
Graphic display with text



Enhanced process visibility and imp

ProVU is an affordable temperature & process controller with advanced functionality including profiling and datalogging options. ProVU incorporates a graphic/text LCD display and is designed to improve user efficiency with many features integrated to reduce commissioning time, simplify operation and minimise maintenance down-time.



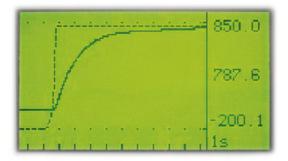
Improved process visibility

One of the key factors in maintaining and improving operation of a system is to have high visibility of the process. The LCD screen on ProVU displays clear real-text messages, removing ambiguity that can be caused by mnemonic codes on LED displays used in many products.

Simplified Operation

Improve operator efficiency and reduce the possibility of errors by creating an optimised menu structure for screen navigation. The ProVU configuration tool is used to provide operators with the specific parameters needed in the order you want them. Security is assured with password protection on supervisor and configuration parameter access levels.





A complete control solution

The integrated control and monitoring functions of ProVU results in fewer components, reduced wiring, less space requiredand lower cost. Advanced process and temperature control, extensive profiling capability, high visibility alarms and datalogging functions all packaged within a single ¹/4 DIN product.

Minimise setup time

Constantly referring to manuals when commissioning is time consuming and can lead to confusion. A number of tools are available for ProVU to simplify the configuration process; an easy setup wizard, on-screen help, BlueControl software for on or offline programming and secure local configuration with a memory stick via the front access USB port.



proved user operation

Real text display with graphics

- Easy to read green/red LCD display
- Screen colour can be set to change on alarm
- Multi-language option (English, French, German, Italian, Spanish)
- Custom splash-screen on startup add your company logo
- Graphic trend view
- LED indication of heat, cool, autotuning and alarms

Profiling functionality

- 255 segments to allocate freely in up to 64 programs
- Ramp, dwell, hold, loop or jump to other profile
- User-defined text profile names
- Delayed or day/time profile start
- Detailed overview of profile status
- Up to 5 event outputs
- Bargraph shows profile and current segment progress

Advanced process control

- Easy setup wizard for quick configuration.
 (inputs, alarms, outputs & comms parameters)
- Universal input for thermocouple, RTDs and linear DC process signals (mA, mV, or V)
- Flexible output options (9 max); relay, ssd driver, triac
 & linear DC. Select to match the needs of the process
- Digital input for setpoint selection, profile control, log start/stop, control output enable/disable or auto/manual control
- Configurable menus (via BlueControl)
- Pre-tune and self-tune function
- RS485 Modbus or Ethernet comms option
- USB port for local upload/download of configuration files
- Master-slave configuration for multi-zone applications





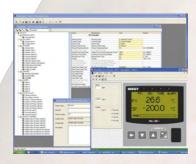
Integrated datalogging option

- Historic process data for analysis or reporting
- Trend view and alarm indication
- Export data files via front USB or comms
- Log process values, setpoints or alarms (including min, max & ave)
- Run-then-stop or FIFO (first in first out) recording
- Logging time intervals from 1s to 30m

BlueControl configuration suite

Save commissioning time by utilising the configuration tools within BlueControl PC-based software.

- Change parameter settings
- PID tuning
- Offline simulation tools reduce risk
- Visibility of live process data fine-tune settings for optimum performance
- Back-up of all settings for quick reconfiguration



Customise ProVU for your process

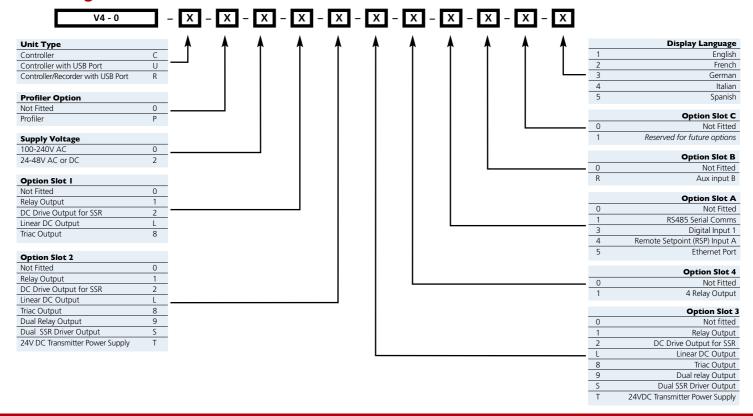
- Add a splash screen with your company logo
- Optimised menu structure reduce keypresses & simplify operation
- Modify displayed text labels to match system operation
- Create a company contact page

Specification

Full PID with pre-tune, auto-pretune, self-tune or manual tuning, heat only or heat & cool
Selectable with 'bumpless' transfer when switching between auto and manual control
Up to 9 for control, alarms, profiler event outputs, 24VDC transmitter power supply & retransmission.
Up to 5 alarms selectable as process high, process low, deviation & band, plus sensor break and loop alarms. Logical OR alarm outputs.
160 x 80 pixel, monochrome graphic LCD with a dual colour (red/green) backlight
BlueControl configuration and commissioning software
J, K, R, S, T, B, C, D, E, L, N, PtRh 20%:40%
3 wire PT100, NI120
0 -20mA, 4-20mA, 0-50mV, 10-50mV, 0-5V, 1-5V, 0-10V, 2-10V (0-100mV and 2Kohm pot also on aux-B input) scaling -1999 to 9999
±0.1% of input range ± 1 LSD, Thermocouple CJC, (Aux Input : ±0.25% of input range ± 1 LSD)
Process input 10 per second, Aux input : 4 per second
Detected within 2 secs, control goes to user preset power value.
Functions: setpoint select, control output, enable/disable, auto/manual control, profiler run/hold/abort, datalogger start/stop
Volt free contact or DC voltage: open contact / 2 to 24VDC signal = Logic high, closed contact / -0.6 to 0.8VDC signal = Logic low
V . V V . V V
Single relay: 2A resistive SPDT at 120/240VAC, >500,000 operations
Dual & Quad relay: 2A resistive SPST at 120/240VDC, >200,000 operations (dual) or >500,000 operations (quad)
Voltage > $10V$ into 500Ω min
Operating voltage: 20 to 280Vrms (47 to 63Hz), Rating 0.01 to 1A @ 25°C
Ranges: 0-5V, 0-10V, 1-5V, 2-10V, 0-20mA & 4-20mA (selectable) ±0.25% of range (mA@250Ω, V@2kΩ)
Power rating 24V nominal (19 to 28VDC) into 910Ω min (option to use DC linear output as 0-10V adjustable Tx PSU)
RS232 via RJ11 cable, (configuraion only) RS485 - Modbus RTU master or slave, Ethernet - Modbus TCP slave (10 base-T or 100 base-T), Ver 1.1/2.0 USB host for memory stick
255 segments can be freely allocated in up to 64 programs
Ramp (rate or time), dwell (soak), hold (manual guaranteed soak or real-time profiling), loop (to previous segment), join another profile, end or repeat sequence
Run, hold, abort, profile select, jump to next segment, delayed profile start, real-time clock profile start.
PV (Process variable), max and min PV between samples, actual SP (setpoint), output power, alarm & event status, power on/off
FIFO (circular buffer) or run-then-stop (fixed buffer)
1, 2, 5, 10, 15, 30 sec or 1, 2, 5, 10, 15, 30 min
Manual; serial comms; digital input; synchronised with profile; PV rate of change; log on alarm
CE, UL, cUL. EMI - EN61326, Safety EN61010-1 & UL61010C-1 Polution degree 2, Installation category II
Fascia IP66 (IP65 with USB fitted), Behind panel IP20

For a detailed product specification please download the ProVU datasheet at www.westinstruments.com or call your nearest sales office

Ordering Information



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