



LCD Temperature Controllers

VX series



High-performance temperature controller with wide LCD angle, convenient and excellent control performance

- ▶ PV: 14-segment display
(17% increased from existing products)
- ▶ SV: 11-segment, MV: 7-segment value display (VX2, 7, 9)
- ▶ 0.2 % Display accuracy
- ▶ 50 ms High-speed sampling
- ▶ Fast tuning time of 1.5 cycle
(existing tuning time: 2.25 cycle)
- ▶ 4 PID groups, 4 SV settings, 4 auxiliary outputs
(VX4: max 3 outputs)
- ▶ 63mm short body size
- ▶ Protective cover can be attached (Optional)
- ▶ Real time monitoring / recording /
parameter setting by TCS

※ TCS freeware download at www.hynux.com



Visibility



Wide angle, Various colors, Increased visibility with large character size

- ▶ PV: 14 segment display(17% increased from existing products)
- ▶ SV:11 segment, MV:7 segment value display(VX2,7,9)
- ▶ MV display: Available for only VX2, VX7, VX9
(VX4: Press the MD key to check MV value in RUN status)
- ▶ Improved visibility by characters in white, green, yellow color
- ▶ Control status, communication status and function fault can be checked immediately by various indicators



▶ Previous model

▶ VX



Superior control performance



◆ High precision & high speed sampling

- ▶ Realization of high precision control(display accuracy $\pm 0.2\%$ of FS ± 1 digit)
- ▶ Applicable to fast control system by high-speed sampling cycle
- ▶ Optimized for environments requiring high-speed response
- ▶ Heating & cooling simultaneous control



▶ 0.2 %

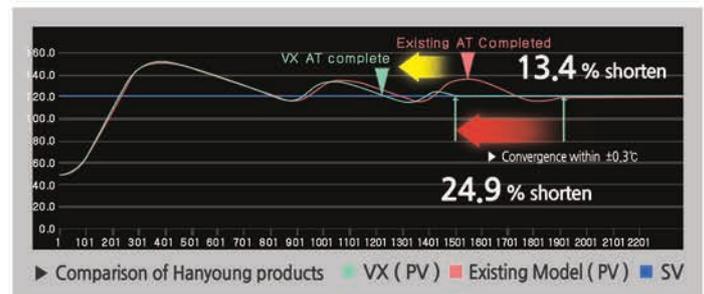
▶ 50 ms

▶ Heating & Cooling

Display accuracy High-speed sampling control

◆ Reduced auto-tuning time

- ▶ Fast tuning time of 1.5 cycle(existing tuning time: 2.25 cycle)



◆ Various options

- ▶ Thermocouple, RTD, Analog Input
- ▶ Standard Control, Heating Cooling Control, Ramp Control
- ▶ 4 PID groups, 4 SV settings, 4 auxiliary outputs(VX4: max 3 outputs)
- ▶ Various alarm function and high capacity relay(5A, 220Va.c.)
- ▶ Loop Break Alarm(LBA), Retransmission output (RET), Digital Input(DI) Remote Input(REM), Heater Break Alarm(HBA)
- ▶ RS485 communication
(Modbus RTU) (PC-Link, PC-Link SUM, ModbusASCII)



Convenience



Space saving, Front panel protection structure, Improved button operation

- ▶ 63 mm depth short body
(78.4 mm depth with additional protective cover)
- ▶ Front panel protection(VX4:IP66, VX2,7,9:IP65)
- ▶ Easy to maintain/repair with front separation structure
- ▶ Smooth touch and durability with tact switch
(ABS material)



▶ 63mm short body size



▶ Safe use in dust and waterproof environments



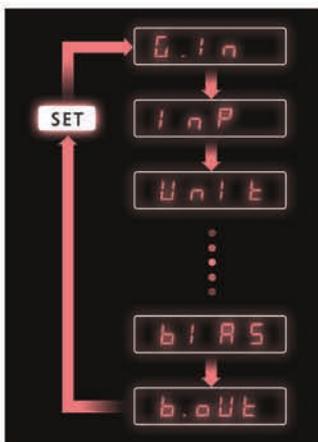
▶ Improved durability using ABS tact switch



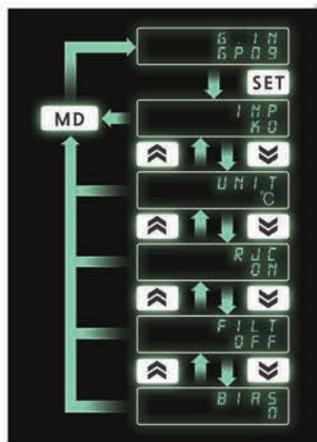
▶ Easy replacement without re-wiring through front detachment



▶ Protective cover can be attached (Sold separately)



▶ Existing parameter setting method
(One-way movement)



▶ VX parameter setting method
(Two-way movement)

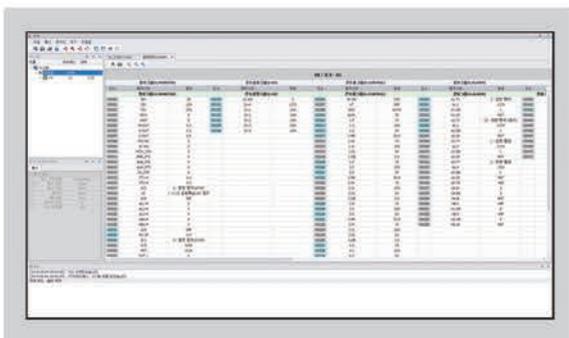


◆ Easy menu settings

- ▶ Convenient and time saving setting by up/down key
- ▶ Easy operation through full/basic/easy menu
- ▶ Front function key
(RUN/STOP, AT, MANUAL/AUTO output, Lock)

◆ Parameter setting on PC

- ▶ Hanyoung Nux total communication software(TCS)
- ▶ Real time monitoring / recording / parameter setting by TCS
- ※ TCS freeware download at www.hynux.com

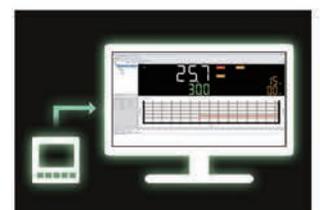


◆ USB Loader Function

- ▶ MINI USB 2.0 cable(NMC-UM210)/ Sold separately
- ▶ Easy parameter value backup
- ▶ Can be set in non-power source



▶ Simple and easy connection with USB cable



▶ VX and TCS connection with USB cable

