

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

LCD Digital Temperature controllers

VX series

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



Increased visibility



Durable ABS keys



short body size



Fast tuning



High - Accuracy



High-speed sampling cycle



Configurable by PC



Loader cable



Communication

HANYOUNG NUX

Hotline: 1900.6536 - Website: HOPLONGTECH.COM

01 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



▶ Bright Environment ▶ Dark Environment



02 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% Display accuracy ▶ 50 ms High-speed sampling ▶ Heating & Cooling control

Reduced tuning time
Optimal Control

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



▶ Comparison of Hanyoung products ■ VX (PV) ■ Existing Model (PV) ■ SV

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, 220VAC)
- ▶ 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)



03 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



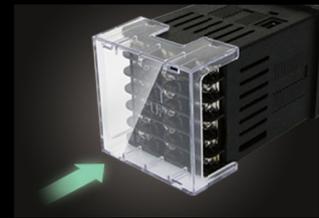
▶ Safe use in dust and waterproof environments



▶ Easy replacement without re-wiring through front detachment



▶ Improved durability using ABS tact switch



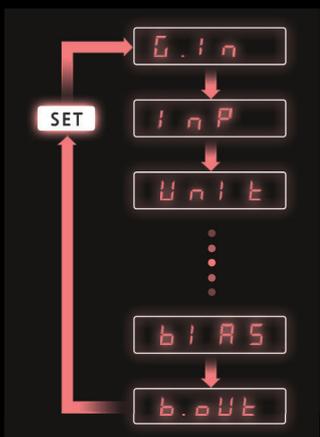
▶ Protective cover can be attached (Sold separately)

Easy menu settings

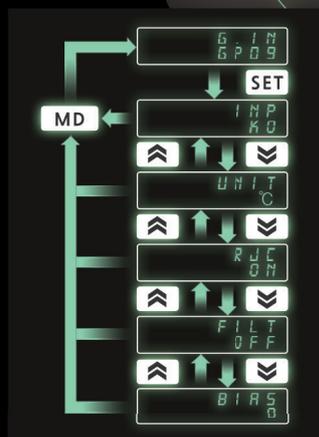
- ▶ Convenient and time saving setting by up/down key
- ▶ Easy operation through full/basic/easy menu
- ▶ Front function key(RUN/STOP, AT, MANUAL/AUTO output, Lock)

Parameter setting on PC

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



▶ Existing parameter setting method (One-way movement)



▶ VX parameter setting method (Two-way movement)

USB Loader Function

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



▶ Simply connecting USB cable



▶ VX and TCS Connection with USB cable

