

VD SERIES

VAV SMART ACTUATOR HMI

LCD Room Unit For VA Series Smart Actuators

VD SERIES

VD series Human Machine Interface, Compact with sensing + Controller + Communication+ LCD Display. It has communication port (MODBUS RTU) provide with RJ11 connector. For direct communicate with smart VAV actuator.



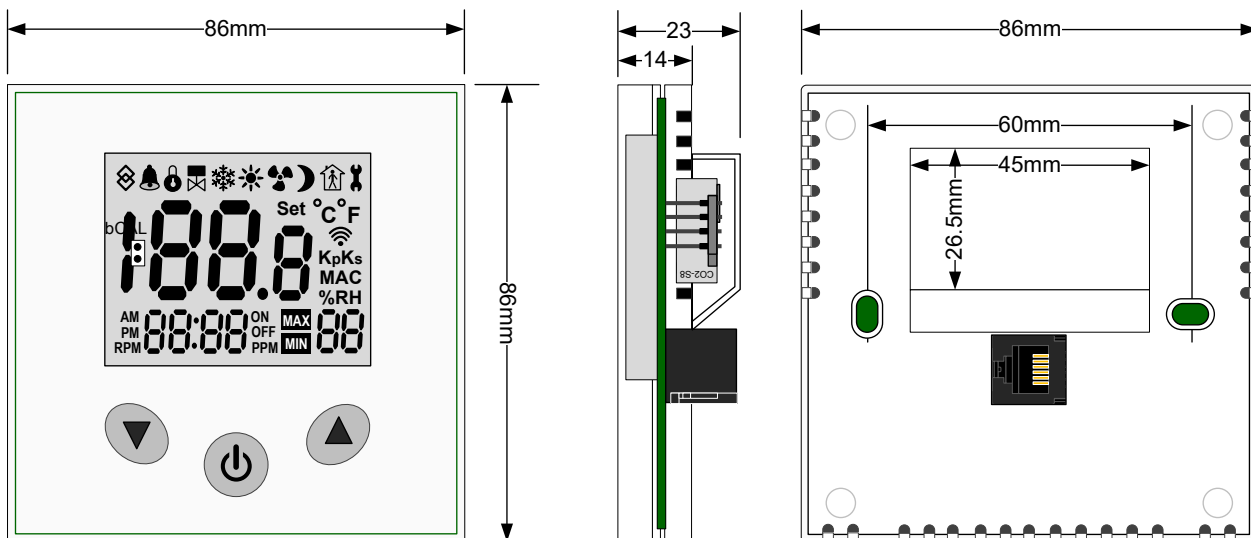
PRODUCT FEATURE

- 32 bit (MCU) with memory
- Compact with Sensing + Controller + Communication + Display
- MODBUS RTU for Communication
- LCD with back light, Clear and detailed display of the operating data
- Built in Temperature(T), Humidity(H), Carbon dioxide (CO2), IAQ sensor
- High-precision for IAQ sensor
- Dedicated design for smart VAV actuator
- Compact, quickly installation with Pluggable terminal & RJ11 connection

MODEL SELECTION TABLE

MODEL / TYPE	TEMPERATURE	HUMIDITY	CARBON DIOXIDE	COMMUNICATION	BACKLIGHT
VD	Yes	-	-	MODBUS RTU	Yes
VD-H	Yes	Yes	-	MODBUS RTU	Yes
VD-IAQ	Yes	Yes	Yes	MODBUS RTU	Yes

DIMENSION (mm)



TECHNICAL SPECIFICATION

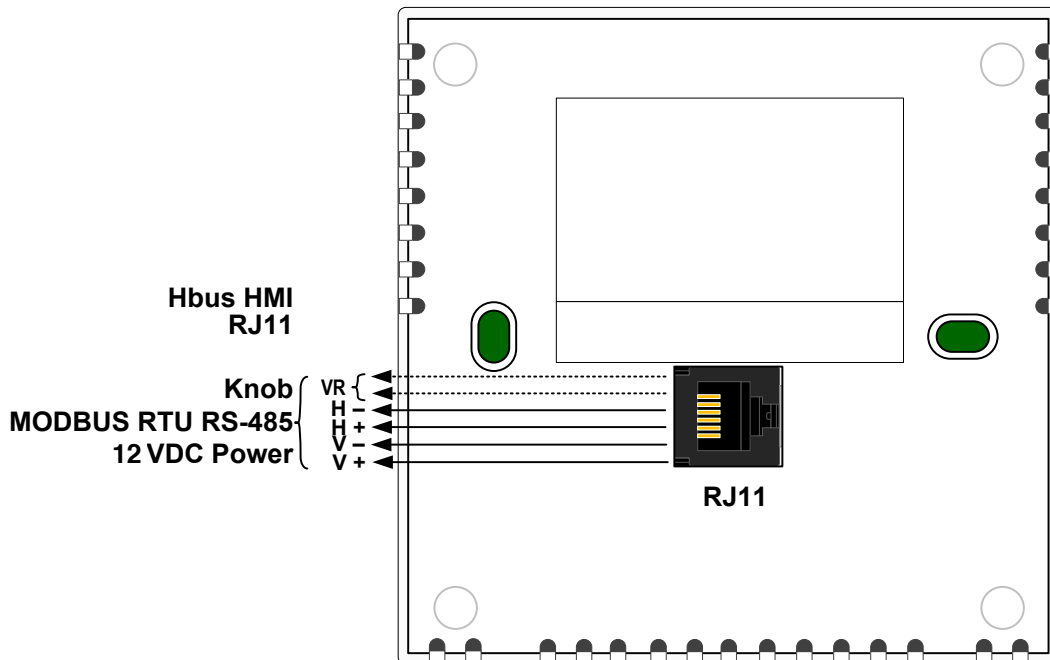
MODEL NUMBER	VD
MCU	32 bit CPU (MCU) with memory
DIMENSION	90mm(W)*90mm(H)*26mm(D)
WEIGHT	
● VD	138 g
● VD-H	138 g
● VD-IAQ	146 g
BUTTON	ON-OFF switch & UP Down setting
COMMUNICATION	MODBUS RTU RS-485 loop, speed, 9600 BPS, 100m
OPERATING	0°C...50°C, 20...90%RH, non condensing
POWER SUPPLY	12 VDC, 1VA
DISPLAY	61.5*39.6mm LCD with backlight
TEMPERATURE SENSOR	
● VD-H	10KΩ @25°C (NTC) Thermistor, 0°C...50°C, ±0.3°C @25°C
● VD-IAQ	CMOS, 0°C...50°C, ±0.3°C
HUMIDITY SENSOR	CMOS, 0...100%RH, ±3%RH
CARBON DIOXIDE	Non-dispersive infrared (NDIR), 400...2000ppm, ±70ppm+3% of reading
CO2	ABC (Automatic Baseline Correction) & bCAL (background calibration)
HOUSING	ABS+PC, IP20
CERTIFICATION	CE(EMC Directive 2004/108/EC) FCC(Part 15,Subpart B, Class A)

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WIRING



INSTALLATION

- VD series designed for signal connection.
- Use RJ11 dedicated connector, you can use RJ11 dedicated 6-wire cable for wiring.
- Please wire in accordance with the instructions of the junction diagram.
 - First, separate the panel of this product from the base.
 - After fixing the base, insert the RJ11 dedicated 6-wire cable and fasten it, and then cover
 - the panel to complete the installation.