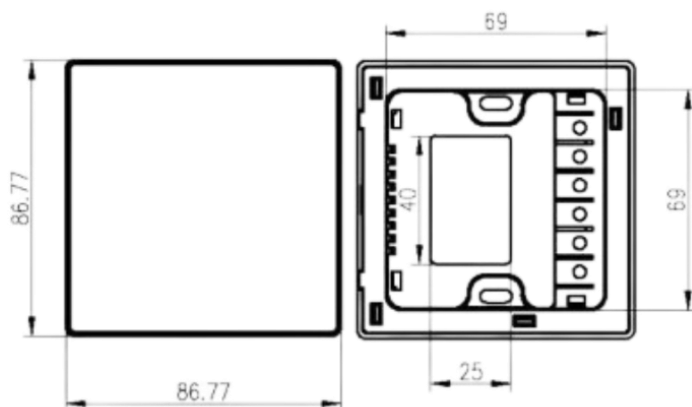# UX-400 Modbus Thermostat

Description

This 4-inch capacitive touchscreen thermostat serves as a dedicated Modbus-enabled control interface for Fan Coil Units (FCUs). It features built-in binary outputs to directly manage fan speeds, cooling valve and heating valve, removing the need for separate controllers.

Equipped with integrated temperature and humidity sensors, the thermostat provides accurate environmental feedback for precise climate regulation. Communication with Building Management Systems (BMS) is handled via native RS485 Modbus RTU protocol (PN: TST-400-MODRTU), ensuring reliable and standardized integration.

For projects requiring networked control, Modbus TCP/IP (PN: TST-400-MODTCP) and BACnet/MSTP (PN: TST-400-BACNET) communications are available as customized upon request.
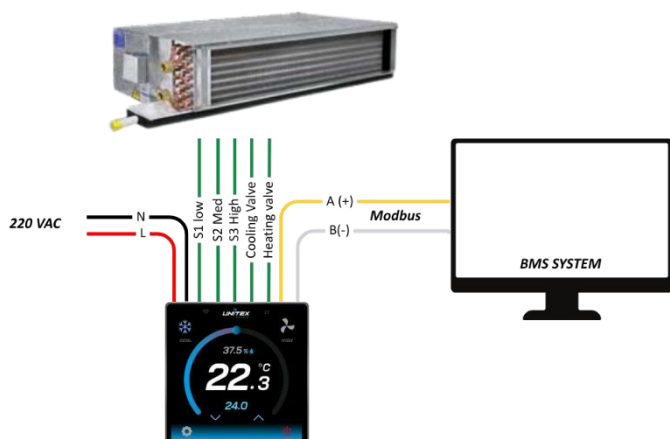
Technical Dimensions

Applications

- Hotel rooms
- Office HVAC zones
- Residential apartments
- Smart buildings
- FCU retrofits and new construction

Wiring Diagram

Key Features

Parameter	Description
Display	4-inch IPS full-color view capacitive touchscreen with intuitive interface.
Temperature Sensor	Built-in SHT40 digital sensor (±0.3°C accuracy)
Humidity Sensor	Built-in SHT40 digital sensor (±2% RH accuracy)
Fan Speed Control	3 binary outputs for Low / Medium / High speeds, plus Auto mode logic
Operating Modes	Cooling, Heating
Valve Control	Binary output for cooling valve Binary output for cooling valve
Output Type	Binary outputs (no analog)
Communication Interface	RS485 Modbus RTU (standard)
Optional Communication	Modbus TCP/IP and BACnet/MSTP (available only by customized order)
Power Supply	220 VAC ±10%, 50/60 Hz
Power Consumption	<3W
Mounting	Wall-mounted, compatible with 70 mm electrical box
Housing Material	Flame-retardant ABS plastic
Real-Time Feedback	Display shows room temperature, humidity, fan speed, setpoint, mode, heater