

【Description】

MST20S LCD Non-programmable unity control panel is designed for DPC series microcomputer programmable controller usage, it has a large-scale LCD, which can display input point value of DPC programmable controller (from temperature sensor, humidity sensor, etc.). This panel has eight operates button for controls like start; stop; change humidity or temperature setting value). This panel adapt to be used for user request at scene need timely examine all sorts of numerical value or timely make operation.



【Features】

- Use 16 bit microprocessor, high precise operation.
- Adopt RS-485 two-wire communication network (4 wires in total with power line), consists with MODBUS RTU format.
- Large size back light LCD panel. Convenience during the night operation.
- Selectable usage for air conditioning, central heating, constant temperature, constant temperature and humidity application.
- Can show temperature, humidify, dew point, temperature sets up value, humidity sets up value, fan coil running state and cooling, heating, de-humidify status.
- Can set temperature, humidity value and control fan start/stop. Celsius or Fahrenheit unit selectable for Temperature display.
- Can display DPC time format, time coincident by the time synchronization.
- Can manual control cooling, heating, humidify, dehumidify as benefit maintain and test. When manual operation, an icon will bring user's attention.
- Display alarm code voice alarm message for a new alarm. It has alarm history for checking. The alarm history can be deleted by authorized personnel. Buzzer can be turned off.
- Included self wakeup function (Watch Dog) when software is down.
- Password setting for a general operation and a parameter setting to prevent unauthorized operation.
- Has parameter mode, which can display and control input (AI/ BI) and output (AO/ BO) status and all inside parameter numerical value (AV/ BV) of DPC. In parameter mode, output (AO/ BO) points permit priority control.

【Specification】

Power Supply: 5VDC, 35mA Max. Power supply by DPC Series controller is available.

LCD Display: 64mm*40mm LCD display, Dynamic graphic display, Blue back light.

Microprocessor: 16 bit high speed processor

Keys: 8 operation buttons

Communication: 2 wire MODBUS RTU standard RS-485 (9600, 8, N,2) communication.

Environment: 0~70°C · 0~95%RH non-condensing.

【Installation】

- Read and follow the installation instruction in this document for installation to prevent danger or damage results.
- Check if this product meets your application requirement.
- Installer should be a trained and an experienced technician.
- Turn off power when installation. Electric shock or equipment damage may cause serious injury.
- For optimal control effect, it is recommended to use AWG22 two-core shielded cable with exclusive EMT piping for transmission. Do not share the pipe with other power cable.
- Wall mounting the parts after wiring. Fix the parts with care. Make it flat without twist to prevent damage.
- Please refer to the "DPC serial Digital Programmable Controller Technical Manual".

【Wiring】

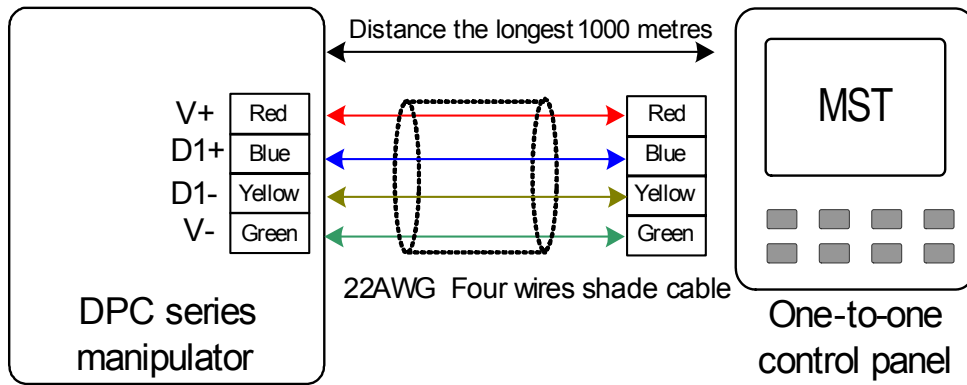


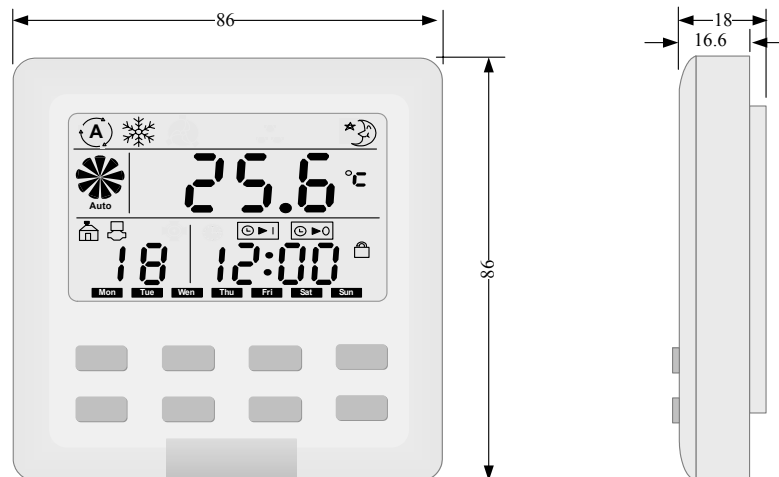
Figure 1 MST20S operation panel wiring diagram

【Parameters List】

Parameter	Description	Read write	Parameter	Description	Read write	Parameter	Description	Read write
AV 0	Temperature sensor value	R	AV 12	Humidity sets up low limit	R	BV 0	Motion control	RW
AV 1	Humidity sensor value	R	AV 13	Heating output	R	BV 1	Fan status	R
AV 2	Dew point sensor value	R	AV 14	Cooling output	R	BV 2	Temperature unit choice	R
AV 3	Temperature sets up	RW	AV 15	Humidify output	R	BV 3	Buzzer control	R
AV 4	Humidity set up	RW	AV 16	Dehumidify output	R	BV 4	Fire alarm	RW
AV 5	Enforced Heating control	RW	AV 17	Ices water output	R	BV 5	Fan off alarm	RW
AV 6	Enforced cooling control	RW	AV 18	Ordinary operates password	R	BV 6	Temperature high limits alarm	RW
AV 7	Enforced humidify control	RW	AV 19	Special parameter	R	BV 7	Temperature low limits alarm	RW
AV 8	Enforced dehumidify control	RW	AV 20	Switches alternative parameter	R	BV 8	Humidify high limit alarm	RW
AV 9	Temperature sets up high limit	R	AV 21	Control mode parameter	R	BV 9	Humidify low limit alarm	RW
AV 10	Temperature sets up low limit	R	AV 22	Time form factor	R	BV 10	Fan fails alarm	RW
AV 11	Humidity sets up high limit	R				BV 11	Filter dirty alarm	RW

- Explanation:
1. Above listed parameters are for MST20S and DPC communication.
 2. "Read/Write" item in the above list, "R" means read only, "RW" means MST20S will replace its value after its assigned operation.
 3. All sensor value, output and alarm operation is working in DPC, not in MST20S.
 4. MST20S displays and controls by following the above list.

【Dimensions】 unit : mm



Above information is for this product. We reserve the right to alter this information without notice