BACnet Field Control Device

LCD Control Panel

DSP20U

【Description】

DSP20U LCD control panel works with MSnet port of DAC controllers. Its LCD back-light panel monitors status of control points and let user enter set values for temperature, humidity etc. Eight control buttons for users operation. Display of DSP20U is user programmable. This panel is benefit for user to do local control and monitor.

【Features】

- 32 bit high speed microprocessor
- Separate from controller. Easy installation for both of indoor wall or panel mounted.
- Mono 144*64 LCD with 4 lines English or Chinese display, each line displays 18 English or 9 Chinese characters. LED with back light.
- MODBUS connect to AIRTEK DAC BACnet AAC controller for local control of a controller.
- Can editor multiple pages with each page up to 64 points, can read or write Present Value AI/AO/AV/BI/BO/BV and Priority Array of a device.
- Online edit display pages of DSP20U by BACsoft.
- Selectable build in active icons.
- 8 operation keys.
- A setting page for user to change default setting of the panel.
- When connect DSP20U or DSP21H to DAC, WC, GC-DB controllers, DSP20U or DSP21H can receive and display alarm of the controller it connected. It will keep 20 most recent alarms in record.
- 5VDC power supply from DAC directly.
- RS485 MODBUS RTU
- Password to avoid unauthorized operation
- Plug and play.
- Function of DSP21H is the same as a DSP20U, but DSP21H is on the cover of DAC.

【Specification】

Power Supply：5VDC input, 5VA

LCD Display：Mono 144*64 LCD with 4 lines English or Chinese display, each line displays 18 English or 9 Chinese characters. LED with back light.

Microprocessor：32 bit high speed microprocessor

Press Keys：8 keys

Network：One RS-485 MODBUS RTU port.

Environment：0～70℃，0～95%RH non-condensing

AIRTEK®

【Installation】

- For wall mounted, the double gang back box should be selected for enough wiring space.
- Lock the fixed sheet iron by the screw then installs the controller and pushes down to fix it. Uninstall it by reverse process.
- Uses the AWG22 shield cable and EMT to obtain good control effect.
- Power supply from DAC it attached. Follow wire connection order.
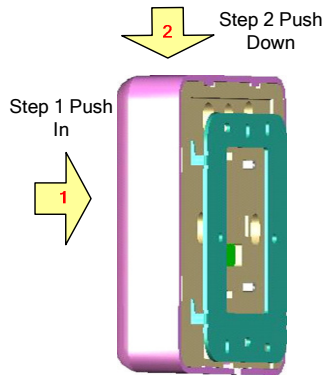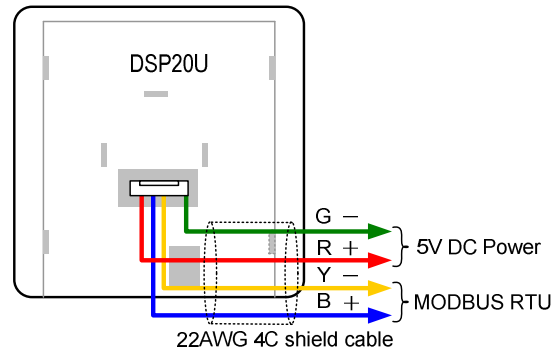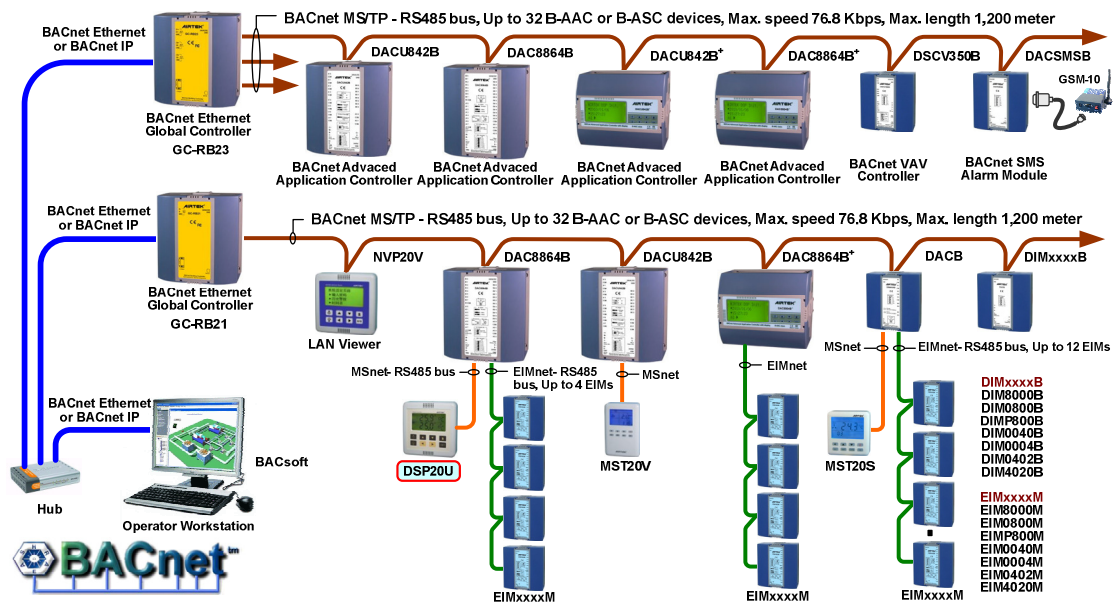- Pay attention to avoid dust, condensate environment element to prevent product damage.

Step 2 Push Down

Step 1 Push In

DSP20U

G −
R + } 5V DC Power
Y −
B + } MODBUS RTU

22AWG 4C shield cable

Fig. 1 DSP20U installation   Fig. 2 DSP20U and DAC wiring

【Network】

BACnet MS/TP - RS485 bus, Up to 32 B-AAC or B-ASC devices, Max. speed 76.8 Kbps, Max. length 1,200 meter

BACnet Ethernet or BACnet IP

BACnet Ethernet Global Controller GC-RB23

DACU842B — DAC8864B — DACU842B⁺ — DAC8864B⁺ — DSCV350B — DACSMSB

GSM-10

BACnet Advaced Application Controller — BACnet Advaced Application Controller — BACnet Advaced Application Controller — BACnet Advaced Application Controller — BACnet VAV Controller — BACnet SMS Alarm Module

BACnet Ethernet or BACnet IP

BACnet Ethernet Global Controller GC-RB21

BACnet MS/TP - RS485 bus, Up to 32 B-AAC or B-ASC devices, Max. speed 76.8 Kbps, Max. length 1,200 meter

NVP20V — DAC8864B — DACU842B — DAC8864B⁺ — DACB — DIMxxxxB

LAN Viewer

MSnet — EIMnet- RS485 bus, Up to 12 EIMs

MSnet- RS485 bus — EIMnet- RS485 bus, Up to 4 EIMs — MSnet — EIMnet

BACnet Ethernet or BACnet IP

BACsoft

DSP20U

MST20V

MST20S

DIMxxxxB
DIM8000B
DIM0800B
DIMP800B
DIM0040B
DIM0004B
DIM0402B
DIM4020B

EIMxxxxM
EIM8000M
EIM0800M
EIMP800M
EIM0040M
EIM0004M
EIM0402M
EIM4020M

Hub

Operator Workstation

BACnet

EIMxxxxM   EIMxxxxM   EIMxxxxM

【Dimension】Unit: mm

120
120
18
24
42
43
45
60
90
65
88
100

Please refer to http://www.airtek.com.au for the most recent updated information.