Field Control Layer Device

MFT28U

[Description]
MFT28U is DF series networking Fan Coil Unit controller dedicated on-site operation man-machine interface. It is a two-wire RS485 communication transmission interconnection with the controller. It may facilitate the user by graphically to access, examine, setting, change and confirm each kind of control parameter value from DF controller, for example to perform a manual start-stop device operation, air conditioning mode selection, temperature setting/adjustment, fan speed selection, enable timer shutdown function, and monitoring following parameter, present temperature value, the mode of air conditioning, fan speed position, timer shutdown values and alarm messages, etc. MFT28U has a 2.8 inches TFT LCD touch screen and Simplified / Traditional Chinese / English display subtitles function, four function keys, build in with a 32-bit high performance microprocessor. User can use NFTextEdit software to edit screen pages, even corporate image or promotion leaflet can be loaded to the screen when in non operation mode, This not only enhance the added value of products but also enhance the effectiveness of corporate image advertising.

[Features]
- 32 bit microprocessor, high precise operation.
- MODBUS communication can be linked AIRTEK DFC series SCnet layer communication.
- 2.8" TFT LCD touch screen, 65536 color, resolution 320 * 240 pixel, displays color up to 65,536 colors, with Simplified / Traditional Chinese / English operation menu, menu settings can be directly switched Control screen divided into the main control screen and the advanced settings screen, user can access easily to the main operating screen through control panel buttons.
- The main control provides four types of background styles to choose, each with air-conditioning, heating, fan, three different pages, total 12 pages..
- With Advanced Settings function selection screen, under the main control screen display state, click anywhere on the screen to enter the advanced screen, there is mode selection for comfortable sleep, energy saver, schedule on/off, timed shutdown, system configuration, product information, passwords etc.
- Can be transmitted via Mini USB interface to update the firmware and upload pictures Information
- A variety of images can be stored in the unit by using the NFTextEdit software for marketing purpose, can set up to 18 pictures, display unit act as an advertising panel when in "no operation" mode.
- With multiple language, lock feature, temperature unit selectable, the background setting, buzzer, media player, brightness, clock mode, the clock setting adjustment parameter setting functions.
- Clock mode, when connected, it can be either select monitor through read by clock or automatic synchronization with network time. It can also accept central monitoring of Internet time correction, so that the controller is at the same time for all systems. When no monitor connection, you can choose to write the clock, the panel displays time will link synchronization with the controller.

[Specification]
- Power Supply : 5~12VDC, 2VA (Power source can be supply form DFC controller.)
- Microprocessor : 32 bit high speed processor. 64K RAM & 384K Flash memory.
- SCnet Port : MODBUS RTU RS-485 bus, communication speed 9,600 bps, max. transmission distance 1200 meters.
- LCD Display : 2.8" TFT LCD touch screen, 65536 color, resolution 320*240.
- Memory : 8M text font storage and end user data memory space.
- USB Port : Mini USB interface, update firmware and download scada data.
- Real time clock : Ultra capacitor power failure back up, support up to 48hours backup for clock after power failure.
- Environment : 0~50°C, 20~90%RH non-condense.
- Function Key : With four types of function key. Fan coil start/stop, set temperature, fan speed
- Buzzer : For notification and alert usage.
- Accessories : HMI-LINKER
**[Installation]**

- A single gang electrical box (Box) should be reserved when mounted on the wall, in order to get enough space for the device cable, which can be mounted horizontally or vertically.
- With hot-swappable design, PLUG-IN terminals for easy adjustment test.
- Recommended AWG22 four core shielded cable, and EMT pipe configuration in order to achieve better communication results.
- Use computer software to perform BACsoft. Use USB2.0 and Mini USB conversion cable to link MFT28U with Micro USB port (Figure 3) to set the data, update firmware and download the graphic control interface data.
- Installations needed to avoid dust, condensation and other environmental factors, damage to the product.

**[Wiring Diagram]**

- **AIRTEK** Web Embedded Fan Coil Unit Control System Architecture
- **Dimensions** Unit: mm

Please refer to [http://www.airtekgroup.com](http://www.airtekgroup.com) for the most recent update information.