# **Energy Saving & Carbon Reduction**



**Fan Coil Unit Control System Solution** 

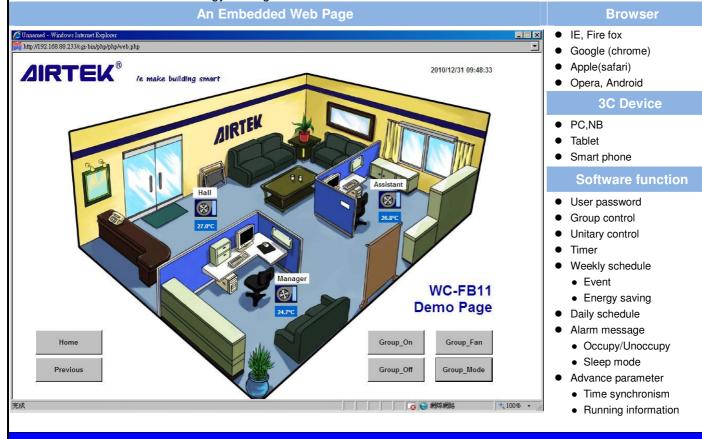






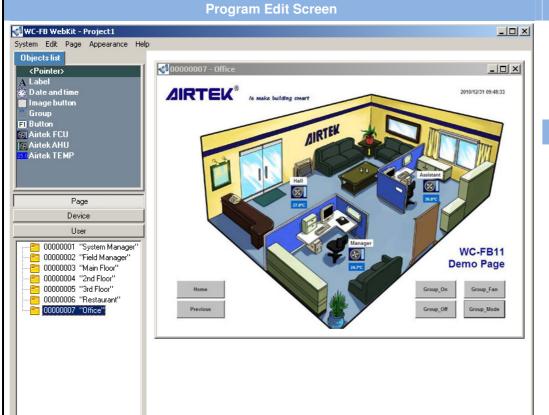
# WEB Page Embedded Fan Coil Unit Control System

WEB page embedded fan coil unit controller WC-FB11 and WC-FB13 store multiple control pages inside. User can access these web pages to control the system from a remote location with internet browser by using a 3C device such as desktop PC, notebook (NB), tablet (iPad), smart phone (iPhone, HTC) etc.. These timely and efficiently control are benefits to make Energy Saving and Carbon Reduction come true.



# AIRTEK WebKit – Web Page Embedded Development Software

Airtek provides a free web page embedded development software – WebKit. User can edit, debug, upload, and download web pages online with an internet browser. It has selectable standard function icon for user to save time to edit and test web pages. Multiple pages setting and jump between these pages are available. User can change layout and function setting of web pages online anytime.



#### **Computer requirements**

- 2 GHz minimum
- 512 MB RAM
- 36+ GB HD
- Ethernet (10/100Mbps)
- Window XP or VISTA or Window 7

### **Development function**

- System password setting
  - Administrator
  - All
  - Group
- IP address setting
- Web page management
- User group select
- Web page edit
- Software function block
- Device module standardize
- Background remittance
- Web page upload/download
- Device group select
- Logical programming
- Program upload/download
- Language select
- Advance parameter setting
- Project management

## **HARDWARE**

	NAME	BACnet Web Embedded FCU Controller		Modbus to BACnet Protocol Interface		Modbus to Modbus Protocol Interface		MOUBUS PID Temperature Controller		
	РНОТО	C C C C C C C C C C C C C C C C C C C	in many	Fredham .	10:	To the state of th				
	MODEL	WC-FB11	WC-FB13	PF-BM12	PF-PM11	PF-TM12	PF-MM11	DTC4211M	DT4211M	
	CPU	32-bit High Performance MCU 16-bit MCU								
	BACnet DEVICE PROFILE	B-AAC	B-AAC	B-AAC	B-ASC	Х	Х	Х	Х	
	BACKUP MEMORY	•	•	•	•	Х	Х	•	•	
	PROGRAMMABLE	•	•	•	•	Х	Х	•	Х	
	WEB SERVER	•	•	Х	Х	Х	Х	Х	Х	
	BACnet Ethernet/IP	•	•	•	Х	Х	Х	Х	Х	
	MODBUS TCP/SEVER	Х	Х	Х	Х	•	Х	Х	Х	
	MS/TP PORT	BACnet MS/TP RS485, transmission speed up to 76.8Kbps, maximum length 1200 meters.								
	MIS/TP PORT	Х	Х	Х	1	Х	Х	Х	Х	
	FCnet PORT	MODBUS RTU RS485, up to 32 DFC's or DT's can be connected per loop, transmission speed 9,600 bps, maximum length 1200 meters.								
		O (1x32 DFC's)	O (3x32 DFC's)	O (2x32 DFC's)	O (1x32 DFC's)	O (2x32 DFC's)	O (1x32 DFC's)	Х	Х	
	SCnet PORT	MODBUS RTU RS485, connect to a NVC51V control panel.								
		Х	Х	Х	Х	Х	•	Х	Х	
z	MSnet PORT	MODBUS RTU RS485, connect to a DSP20U control panel.								
읃		•	Х	Х	•	Х	Х	•	Х	
일	BINARY INPUT(BI)	12VDC detective, dry contact or open collector input, 1,000VDC optical isolator.								
SPECIFICATIOIN		0	0	0	0	0	0	4	4	
SP	ANALOG INPUT(AI)	12-bit resolution, 10KΩ NTC, 0~10VDC								
		0	0	0	0	0	0	2	2	
	BINARY OUTPUT(BO)	SPST dry conta	ct.							
		0	0	0	0	0	0	1(5A/250VAC)	1(8A/250VAC)	
	ANALOG OUTPUT(AO)	0~10VDC output.								
		0	0	0	0	0	0	1(12-bit)	1 (8-bit)	
	CALENDAR	2	2	2	Х	Х	Х	Х	Х	
	SCHEDULE	20	20	20	Х	Х	Х	Х	Х	
	NOTIFICATION-CLASS	4	4	4	Х	Х	Х	Х	Х	
	EVENT-ENROLLMENT	100	100	40	Х	Х	Х	Х	Х	
	ANALOG VALUE(AV)	100	300	100	100	Х	Х	Х	Х	
	BINARY VALUE(BV)	Х	Х	Х	Х	Х	Х	Х	Х	
	MODBUS/TCP CLIENT	Х	Х	Х	Х	Х	Х	Х	Х	
	GRAPHIC DISPLAY	Х	Х	Х	Х	Х	Х	Х	•	
느	l				l	l	l	l		

NAME			Networking Fan Coil Unit Controller								
	РНОТО										
	MODEL	DFC212M	DFC222M	DFC242M	DFC312M	DFC342M	DFC412M	DFC442M			
	CPU	16-bit High Performance MCU									
	FCnet PORT	MODBUS RTU RS-485, connect to WC-FB,PC-Fx controller, transmission speed 9,600 bps, maximum length 1,200 meters.									
	SCnet PORT	MODBUS RTU RS-485, connect to NVC or MSC control panel, transmission speed 9,600 bps, maximum length 1,200 meters.									
	BINARY INPUT(BI)	12VDC detective, dry contact or open collector input.									
Z		Х	Х	X	X	2	Х	2			
ATIC	ANALOG INPUT(AI)	12-bit resolution, 10K $\Omega$ NTC thermistor.									
SPECIFICATION		1	1	1	1	2	1	2			
PEC	BINARY OUTPUT(BO)	Adopt UL/CUL/TUV approved relay, 10A/250VAC, line voltage SPST contact for fan speed control use.									
S		3	3	3	3	3	3	3			
		Adopt UL/CUL/TUV approved relay, line voltage SPST or SPDT contact for valve control use.									
		1(7A/250VAC)	1(7A/250VAC)	2(7A/250VAC)	2(10A/250VAC)	2(10A/250VAC)	4(10A/250VAC)	4(10A/250VAC)			
		Adopt UL/CUL/TUV approved relay, SPST dry contact for chiller or heat pump interlock control use.									
		Х	1(7A/250VAC)	X	X	1(5A/250VAC)	Х	X			

NAME			D Unitary Control Pa	nel	LCD Group Control Panel	LCD Unitary Control Panel			
РНОТО		Equation stating garge	The second secon	7,243	# 0 0 0 0	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 2434		
	MODEL	DSP20U	MST20V	MST20S	NVC51V	MSC20V	MSC20S		
	CPU	32-bit MCU	16-bit High Performance MCU						
	TEMP. SENSOR	X	10KΩ NTC	10KΩ NTC	Х	Х	X		
	HUMIDITY SENSOR	Х	Х	Х		Х	Х		
NO	MSnet PORT	MODBUS RTU RS485, connect to WC-FB11, PF-PM11, DAC, or DSC series controller.							
CATI		0	0	0	Х	Х	Х		
SPECIFICATIOIN	SCnet PORT	MODBUS RTU RS485, connect to a DFC controller.							
SPE		Х	Х	Х	0	0	0		
	GRAPHIC DISPLAY	0	0	0	0	0	0		
	TEXT DISPLAY	0	Х	Х	Х	Х	Х		
	PROGRAMMING	0	X	X	Х	Х	X		

Note: Symbol "O" in above tables means it has the function, "X" means it has no such function.

