

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning – Fan Coil Controller

- = Function is supported
- = Function is not supported

	Fan Coil Controller				
	FCC/S 1.1.1.1	FCC/S 1.1.2.1	FCC/S 1.2.1.1	FCC/S 1.2.2.1	FCC/S 1.3.1.1
General					
Supply voltage	KNX	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	6	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	–	■	–	■	–
Software functionality					
Integrated room temperature controller (RTC)	■	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■	■
Fan outputs					
Number of fans	1	1	1	1	1
Fan type:					
1/2/3 step	■	■	■	■	–
Rated current I _n	5 A	5 A	5 A	5 A	–
Rated voltage U _n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	–
Continues Fan (0 ... 10 V)	–	–	–	–	■
Valve outputs					
Electronic 0,5 A	2	2	–	–	–
Analog 0...10 V	–	–	2	2	2
Control individual	■	■	■	■	■
Supported valve types:					
– Thermoelectric valve drive (PWM)	2	2	–	–	–
– Motor-driven valve drive (3-point)	1	1	–	–	–
– Analog valve drive or	–	–	2	2	2
– 6-way valve drive	–	–	1	1	1
Switching contact					
Number of contacts	1	1	1	1	1
Rated current I _n	16 A	16 A	16 A	16 A	16 A
Rated voltage U _n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
Inputs					
Number of inputs	4	4	4	4	4
Supported sensors:					
– Temperature sensor	■	■	■	■	■
– Dew Point sensor	■	■	■	■	■
– Level sensor	■	■	■	■	■
– Binary signal input	■	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1	1
Fan Coil Unit type					
2 pipe					
Heating	■	■	■	■	■
Cooling	■	■	■	■	■
Heating/Cooling	■	■	■	■	■
4 pipe					
Heating/Cooling	■	■	■	■	■
Commissioning and diagnostic function					
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	■

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	Fan Coil Controller			
	FCC/S 1.3.2.1	FCC/S 1.4.1.1	FCC/S 1.5.1.1	FCC/S 1.5.2.1
General				
Supply voltage	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	■	–	–	■
Software functionality				
Integrated room temperature controller (RTC)	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■
Fan outputs				
Number of fans	1	1	1	1
Fan type:				
1/2/3 step	–	■	–	–
Rated current I _n	–	5 A	–	–
Rated voltage U _n (50/60 Hz)	–	250 V AC	–	–
Continues Fan (0 ... 10 V)	■	–	■	■
Valve outputs				
Electronic 0,5 A	–	1	2	2
Analog 0...10 V	2	–	–	–
Control individual	■	■	■	■
Supported valve types:				
– Thermoelectric valve drive (PWM)	–	1	2	2
– Motor-driven valve drive (3-point)	–	–	1	1
– Analog valve drive or	2	–	–	–
– 6-way valve drive	1	–	–	–
Switching contact				
Number of contacts	1	–	1	1
Rated current I _n	16 A	–	16 A	16 A
Rated voltage U _n (50/60 Hz)	250 V AC	–	250 V AC	250 V AC
Inputs				
Number of inputs	4	4	4	4
Supported sensors:				
– Temperature sensor	■	■	■	■
– Dew Point sensor	■	■	■	■
– Level sensor	■	■	■	■
– Binary signal input	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1
Fan Coil Unit type				
2 pipe				
Heating	■	■	■	■
Cooling	■	■	■	■
Heating/Cooling	■	■	■	■
4 pipe				
Heating/Cooling	■	–	■	■
Commissioning and diagnostic function				
Control and diagnosis via ABB i-bus® Tool	■	■	■	■

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Heating, Ventilation and Air Conditioning – Blower and Fan Coil Actuators

- = Function is supported
- = Function is not supported
- * = Second fan output can be used as 3 switch outputs

	Blower Actuators		FanCoil Actuators			
	FCL/S 1.6.1.1	FCL/S 2.6.1.1	FCA/S 1.1.1.2	FCA/S 1.1.2.2	FCA/S 1.2.1.2	FCA/S 1.2.2.2
General						
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	4	6	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	-	-	-	■	-	■
Fan outputs						
Number of fans	1	2*	1	1	1	1
Supported fan types:						
- 1/2/3 step or	■	■	■	■	■	■
- 3 individual contacts	-	-	■	■	■	■
Rated current I _n	6 A	6 A	6 A	6 A	6 A	6 A
Rated voltage U _n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Valve outputs						
Electronic 0.5 A	-	-	4	4	-	-
Analog 0...10 V	-	-	-	-	2	2
Control individual	-	-	■	■	■	■
Supported valve types:						
- Thermoelectric valve drive (PWM)	-	-	4	4	-	-
- Motor-driven valve drive (3-point)	-	-	2	2	-	-
- Analog valve drive	-	-	-	-	2	2
Valve type can be mixed	-	-	■	■	-	-
Switching contact						
Number of contacts	1	2 (5)*	1	1	1	1
Rated current I _n	6 A	6 A	16 A	20 A	16 A	20 A
Rated voltage U _n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Inputs						
Number of inputs	-	-	3	3	3	3
Supported sensors:						
- Switch sensor	-	-	■	■	■	■
- Value/forced operation	-	-	■	■	■	■
- Temperature sensor	-	-	■	■	■	■
Fan Coil Unit type						
2 pipe						
Heating	-	-	■	■	■	■
Cooling	-	-	■	■	■	■
Heating/Cooling	-	-	■	■	■	■
4 pipe						
Heating/Cooling	-	-	■	■	■	■
Various						
Parallel operation	-	-	■	■	■	■
Commissioning and diagnostic function						
Control and diagnosis via ABB i-bus® Tool	-	-	■	■	■	■