





BACnet Gateways Overview						
Hardware Name		ITM (DCM601A71)	BACnet Gateway	DIII-Net BACnet MSTP Adaptor	DKN Plus Interface	
BACnet Interface Model #		DCM014A51	DMS502B71	DTA118A71	AZAI6WSPDKC	
BACnet protocol		BACnet / IP (Static)	BACnet / IP (Static)	BACnet / MSTP	BACnet / MSTP	
BACnet license		Yes, BACnet/IP Server Gateway License	No	No	No	
No. of IDU controlled		Up to 128 IDU group & ODU Or Up to 4000 BACnet Points	256 IDU group	32 IDU group / 4 ODU	1 IDU	
VRF Outdoor Units Points (M/S1/S2)		(M/S1/S2)	No	(M/S1/S2)	No	
Ventilator Points		No	VAM - OA Processing unit	VAM	No	
BACnet Settings	Individual Device for IDU or ODU	Yes	No	Yes	Yes	
	BTL Certification	No	Yes	Yes	No	
	Support COV	Yes	Yes	No	Yes	
	BACnet Router Service	Yes	No	Yes	No	
	Foreign Device Setting	Yes	Yes	No	No	
	BACnet Port Number	47808 Fixed	Adjustable	N/A	N/A	
	Ethernet Port configuration	Shared w/ Web access	Dedicated BACnet/IP port	N/A	N/A	
	BACnet Setup	CSV File	Commissioning Tool	Dip Switch / BACnet FrontEnd Software	DKN Cloud NA App	
	Temperature units (C/F)	Yes	Yes	Yes	Yes	
Indoor unit Monitoring Points	Unit On Off Status	Yes	Yes	Yes	Yes	
	Alarm Status	Yes	Yes	Yes	Yes	
	Error Code	Yes	Yes	Yes	Yes	
	Operation Mode	Yes (C/H/F/D)	Yes (C/H/F/D/Auto)	Yes (C/H/F/D)	Yes (C/H/F/D/Auto)	
	Room Temperature	Yes	Yes ³	Yes	Yes	
	Occ Cooling Setpoint	Yes	Single Setpoint	Yes	Single Setpoint	
	Occ Heating Setpoint	Yes		Yes		
	Unocc Cooling Setpoint	Yes	No	No	No	
	Unocc Heating Setpoint	Yes	No	No	No	
	Max Cooling Setpoint	Yes	No	No	No	
	Min Cooling Setpoint	Yes	No	No	No	
	Max Heating Setpoint	Yes	No	No	No	
	Min Heating Setpoint	Yes	No	No	No	
	Min Setpoint Differential (Cooling & Heating)	Yes	No	No	No	
	Fan Speed	Yes	Yes	Yes	Yes	
	Airflow Direction	Yes	Yes	Yes	Yes	
	Current Unit Operation	Yes	Yes	No	No	
	Remote Controller Prohibit (On Off)	Yes	Yes	Yes	No	
	Remote Controller Prohibit (Operation Mode)	Yes	Yes	Yes	No	
	Remote Controller Prohibit (Setpoint)	Yes	Yes	Yes	No	
	Filter Sign Status	Yes	Yes	Yes	No	
	Indoor Fan Status	Yes	Yes	Yes	No	
	Communication Status	Yes	Yes	Yes	Yes	
	Thermo-on Status	Yes	Yes	Yes	No	
	Compressor Status	Yes	Yes	Yes	No	
	Aux Heater Status	Yes	Yes	Yes	Yes	
	Forced Thermo-off	Yes	Yes	Yes	No	
	Forced Stop Status	No	No	Yes	Yes	
	Changeover Option	Yes	No	Yes	No	
	Ventilation Mode	No	Yes (VAM)	Yes (VAM)	No	
	Ventilation Rate	No	Yes (VAM)	Yes (VAM)	No	
	Fresh Up	No	No	Yes (VAM)	No	
	Discharge Air Temperature	Yes ¹	No	Yes ¹	No	
	Liquid Pipe Temperature	Yes	No	Yes	No	
	Gas Pipe Temperature	Yes	No	Yes	No	
	EEV Position	Yes	No	Yes	No	
	Return Air Temperature	Yes	No	Yes	Yes	
	Freeze Protection	Yes ²	No	No	No	
	Indoor Unit Control Points	Occupancy Mode	Yes (Occ/Unocc/Standby)	No	No	No
		On/Off command	Same as Occupancy mode	Yes	Yes	Yes
		Room Temperature (writable)	No	No	No	Yes
		Operation Mode	Yes (C/H/F/D)	Yes (C/H/F/D/Auto)	Yes (C/H/F/D)	Yes (C/H/F/D/Auto)
Occ Cooling Setpoint		Yes	Single Setpoint ⁵	Yes	Single Setpoint ⁵	
Occ Heating Setpoint		Yes		Yes		
Unocc Cooling Setpoint		Yes	No	No	No	
Unocc Heating Setpoint		Yes	No	No	No	
Max Cooling Setpoint		Yes	No	No	No	
Min Cooling Setpoint		Yes	No	No	No	
Max Heating Setpoint		Yes	No	No	No	
Min Heating Setpoint		Yes	No	No	No	
Min Setpoint Differential (Cooling & Heating)		Yes	No	No	No	
Cooling & Heating Setpoint Tracking Mode		Yes	No	No	No	
Fan Speed		Yes	Yes	Yes	Yes	
Airflow Direction		Yes	Yes	Yes	Yes	
Timed Override Operation		Yes	No	No	No	
Remote Controller Prohibit (On Off)		Yes	Yes	Yes	No	
Remote Controller Prohibit (Operation Mode)		Yes	Yes	Yes	No	
Remote Controller Prohibit (Setpoint)		Yes	Yes	Yes	No	
Forced Thermo-off		Yes	Yes	Yes	No	
System Forced off		Yes	Yes	No	No	
Ventilation Mode		No	Yes (VAM)	Yes (VAM)	No	
Ventilation Rate		No	Yes (VAM)	Yes (VAM)	No	
Fresh Up		No	No	Yes (VAM)	No	
Filter Sign Reset		Yes	Yes	Yes	No	
Energy Saving Command (setpoint Shift)		No	Yes	Yes	No	

Outdoor unit Monitoring Points	ODU Operation Mode	Yes (ODU System)	No	Yes (ODU System)	No
	Communication Status	Yes (ODU System)		Yes (ODU System)	
	ODU Alarm Status	Yes (ODU System)		Yes (ODU System)	
	Defrost Mode	Yes (ODU System)		Yes (ODU System)	
	Oil Return Mode	Yes (ODU System)		Yes (ODU System)	
	Calculated Electric Power	Yes (ODU System)		Yes (ODU System)	
	Calculated Electric Current	Yes (ODU System)		Yes (ODU System)	
	Special Modes	No		Yes (ODU System) ⁴	
	Outdoor Air Temperature	Yes (ODU System)		Yes (ODU System)	
	Backup Operation	No		Yes (ODU System)	
	Stepdown control	No		Yes (ODU System)	
	System Capacity Code	Yes (ODU System)		No	
	ODU Fan Step	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Evaporating Pressure	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Condensing Pressure	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Suction Temperature	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Liquid Pipe Temperature	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Subcool EV Position	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Condensing Temp	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Evaporating Temp	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Inv. Compressor1 Speed	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Inv. Compressor2 Speed	Yes (M,S1,S2)		Yes (M,S1,S2)	
	EV Position1	Yes (M,S1,S2)		Yes (M,S1,S2)	
	EV Position2	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Hot Gas Temp- Compressor1	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Hot Gas Temp- Compressor2	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Liquid Pipe Temperature (HX Upper)	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Liquid Pipe Temperature (HX Lower)	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Liquid Pipe Temperature (De-Icer)	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Gas Pipe Temperature (HX Upper)	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Gas Pipe Temperature (HX Lower)	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Compressor Suction Temperature	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Subcool Inlet Temperature	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Subcool Outlet Temperature	Yes (M,S1,S2)		Yes (M,S1,S2)	
	Compressor Body Temp	No		Yes (M,S1,S2)	
	Receiver Input Temp	No		Yes (M,S1,S2)	
	4 Way Valve	No		Yes (M,S1,S2)	
	Compressor 1 Current	No		Yes (M,S1,S2)	
	Compressor 2 Current	No		Yes (M,S1,S2)	

1 For FXMQ-PB

2 For FXFQ-T,FXUQ-P,FXEQ-P,FXZQ-T,FXSQ-T,CXTQ-T, FXTQ-TA

3 Based on field settings 10(20)-5

4 Defrost, Oil Return, Pump-down operation, Restart Standby, Off

5 BMS should send a new setpoint for each mode change