

Measurement and control system KJM MANDÍK
Climatix

BACnet table

for AHU version software 61.01 and higher

11/2025

MANDÍK®



ATEX II 2G IIB T4

KJM MANDÍK - BACnet table for AHU version software 61.01 and higher

Item	Data point	Mapping	Read/ Write
Operating mode -	selection - Manual Operatin - PRIO8 or PRIO4	0-Schedule 1-Off 2-Tempering 3-Reduced 4-Comfort	R/W
	current	1 -Off 2-StandbyTempering 3-Reduced 4-Comfort 5-TemperingFreecooling 6-TemperingFrostProtect	R
	auxiliary	5-FanSpeedCompensation 6-Ventilation 8-Preheating 11-Boiler 12-Start 13-BlockFan 14-SuperiorBlock 15-Testing	R
	status	1 - Off 2 - Air 3 - Heat 4 - Cool 5 - Off 6 -Tsup	R
Setpoint temperature -	current	Value (°C)	R
	Comfort - summer	Value (°C)	R/W
	Comfort - winter	Value (°C)	R/W
	Reduced - summer	Value (°C)	R/W
	Reduced - winter	Value (°C)	R/W
	Freecooling	Value (°C)	R/W
	Frost protection mode	Value (°C)	R/W
	Summer compensation	Value (°C)	R/W
Enabling modes -	selection	1 - All 2 - AutoWater 3 - HeatAir 4 - CoolAir 5 - Heat 6 - Cool 7 - Season 8 - Air	R/W
	Auto water mode - cooling setpoint	Value (°C)	R/W
	Auto water mode - heating setpoint	Value (°C)	R/W
	Auto water mode - delay	Value (min)	R/W
Direct management -	Direct desired temperature - setpoint	Value (°C), -100°C- not accepted this direct setpoint	R/W
	Direct fans supply speed - setpoint	Value (%), negative value -	R/W

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Item	Data point	Mapping	Read/ Write
		not accepted this direct setpoint	
	Direct fans exhaust speed - setpoint	Value (%), negative value - not accepted this direct setpoint	R/W
	Direct fresh air - setpoint	Value (%), negative value - not accepted this direct setpoint	R/W
	Direct BMS - enabling the unit to run	1- disable to run unit 2- enable to run unit 3- this direct mode not accepted	R/W
	Direct switch Cool/Heat	1- disable to run unit 2- enable to run unit 3- this direct mode not accepted	R/W
	Direct switch Summer/Winter	1- disable to run unit 2- enable to run unit 3- this direct mode not accepted	R/W
	Alarms - stops the unit	1- OK / 2- Alarm	R
	Alarms - does not stop the unit	1- OK / 2- Alarm	R
	Alarms acknowledge	1- Null/ 2- Acknowledge	R/W
Temperature -	exhaust air after recuperation	Value (°C)	R
	supply air	Value (°C)	R
	preheat air	Value (°C)	R
	exhaust gas	Value (°C)	R
	exhaust gas 2	Value (°C)	R
	extract air	Value (°C)	R
	exhaust air	Value (°C)	R
	outdoor	Value (°C)	R
	heat water supply	Value (°C)	R
	heat water extract	Value (°C)	R
	heat water 2 supply	Value (°C)	R
	heat water 2 extract	Value (°C)	R
	cool water supply	Value (°C)	R
	cool water extract	Value (°C)	R
	cool water 2 supply	Value (°C)	R
	cool water 2 extract	Value (°C)	R
	room	Value (°C)	R
	room 2	Value (°C)	R
	room 3	Value (°C)	R
	room 4	Value (°C)	R
	inlet- supply air before recuperation	Value (°C)	R
	supply air after recuperation	Value (°C)	R
	extract air before recuperation	Value (°C)	R
	internal controller	Value (°C)	R
	reheat air	Value (°C)	R

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Item	Data point	Mapping	Read/ Write
	Frost thermostat water heater	Value (°C)	R
	Frost thermostat 2nd water heater	Value (°C)	R
	supply air 2nd circuit	Value (°C)	R
Filter supply 1 or 2, Filter extract 1 or 2, Filter grease 1 or 2 -	pressure	Value (Pa)	R
	type alarm digital manostat	1 - Info (dirty) 2 - Hard (clogged)	R/W
	setpoint info level pressure	Value (Pa)	R/W
	setpoint hard level pressure	Value (Pa)	R/W
	state	1 - OK 2 - Dirty (Info) 3 - Clogged (Hard) 4 - ErrorSensor	R
Air quality -	state	1- OK / 2- Bad	R
	current value	Value (ppm)	R
	setpoint for Comfort mode	Value (ppm)	R/W
	setpoint for Reduced mode	Value (ppm)	R/W
	current desired value	Value (ppm)	R
	shift setpoint for start airing	Value (ppm)	R/W
	shift setpoint for end airing	Value (ppm)	R/W
	setpoint supply fan	Value (%), negative value - invalid setpoint for constant control	R/W
	setpoint exhaust fan	Value (%), negative value - invalid setpoint for constant control	R/W
	setpoint fresh air	Value (%), negative value - invalid setpoint for constant control	R/W
	operation selection	1 - No 2 - Regime 3 - Comfort 4 - Reduced 5 - Protect 6 - Allways	R/W
	room sensor selection	1 - Avg 2 - Max 3 - Min 4 -Sensor 1 5 -Sensor 2 6 -Sensor 3 7 -Sensor 4	R/W
	sensor 1	Value (ppm)	R
	sensor 2	Value (ppm)	R
	sensor 3	Value (ppm)	R
	sensor 4	Value (ppm)	R
Air flow regulators -	regulator 1	Value (%)	R
	regulator 2	Value (%)	R
	regulator 3	Value (%)	R

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Item	Data point	Mapping	Read/ Write
	regulator 4	Value (%)	R
Humidity -	state	1 - Ok 2 - Humidification 3 - Dehumidification	R
	current value	Value (%)	R
	setpoint for Comfort mode	Value (%)	R/W
	setpoint for Reduced mode	Value (%)	R/W
	current desired value	Value (%)	R
	shift setpoint for start humidification	Value (%)	R/W
	shift setpoint for start dehumidification	Value (%)	R/W
	passive dehumidification option	1 - Off 2 - Regime 3 - Comfort 4 - Reduced 5 - Protect 6 - Always	R/W
	control sensor selection	1 - Room 2 - Extract 3 - Supply	R/W
	room sensor selection	1 - Avg 2 - Max 3 - Min 4 -Sensor 1 5 -Sensor 2 6 -Sensor 3 7 -Sensor 4	R/W
	setpoint supply fan for passive dehumidification	Value (%), negative value - invalid setpoint for constant control	R/W
	setpoint exhaust fan for passive dehumidification	Value (%), negative value - invalid setpoint for constant control	R/W
	setpoint fresh air for passive dehumidification	Value (%), negative value - invalid setpoint for constant control	R/W
	outdoor sensor	Value (%)	R
	outdoor absolute	Value (g/kg)	R
	supply air sensor	Value (%)	R
	supply air absolute	Value (g/kg)	R
	room sensor 1	Value (%)	R
	room absolute 1	Value (g/kg)	R
	room sensor 2	Value (%)	R
	room absolute 2	Value (g/kg)	R
	room sensor 3	Value (%)	R
	room absolute 3	Value (g/kg)	R
	room sensor 4	Value (%)	R
	room absolute 4	Value (g/kg)	R
	Inlet sensor	Value (%)	R

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Item	Data point	Mapping	Read/ Write
	Inleat absolute	Value (g/kg)	R
	After recuperation sensor	Value (%)	R
	After recuperation absolute	Value (g/kg)	R
	Exhaust recuperation sensor	Value (%)	R
	Exhaust recuperation absolute	Value (g/kg)	R
	extract air sensor	Value (%)	R
	extract air absolute	Value (g/kg)	R
Dampers -	min fresh air - Comfort	Value (%)	R/W
	min fresh air - Reduced	Value (%)	R/W
	outdoor ODA position	Value (%)	R
	supply SUP position	Value (%)	R
	mixing MIX position	Value (%)	R
	extract ETA position	Value (%)	R
	exhaust EHA position	Value (%)	R
	outdoor ODA state supply SUP state mixing MIX state extract ETA state exhaust EHA state	1 - OK 2 - ErrPoz 3 - ErrFbk	R
	global function state	1 - Ready 2 - Cool 3 - Heat 4 - NoCool 5 - NoHeat 6 - Choice 7 - Humidity 8 - AirQuality 9 - Defrost 10 - LowTempSupply 11 - WaterHeater 12 - Preheating 13 - Error	R
	control temperatue fresh air	1 - Outdoor 2 - Preheat 3 - BeforeRecup 4 - Supply 5 - Room 6 - AfterRecup	R/W
	setpoint fix fresh air - Comfort	Value (%)	R/W
	setpoint fix fresh air - Reduced	Value (%)	R/W
	setpoint 100% fresh air - heating	Value (°C)	R/W
	setpoint 0% fresh air - heating	Value (°C)	R/W
	setpoint 100% fresh air - cooling	Value (°C)	R/W
	setpoint 0% fresh air - cooling	Value (°C)	R/W
	selection control - Comfort	1 - Fixed 2 - Linearly 3 - POL (room unit) 4 - Setpoint1 5 - Setpoint2	R/W
	selection control - Reduced	1 - Fixed	R/W

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Item	Data point	Mapping	Read/ Write
		2 - Linearly 3 - POL (room unit) 4 - Setpoint1 5 - Setpoint2	
Water heater 1 or 2 -	pump	1- Off / 2- On	R
	valve	0-100%	R
	state	1 - Ready 3 - Heat 4 - Humidity 5 - LowTempOutdoor 6 - LowTempSupply 7 - LowTempWater 9 - Preheating 11 - NoHeat 12 - FrostThermostat 13 - Error (Sensor, Pump)	R
	temperature supply low	1- OK / 2- Error	R
Water heater 1	frost protection	1- OK / 2- Error	R
	temperature water low	1- OK / 2- Error	R
Water cooler 1 or 2 -	pump	1- Off / 2- On	R
	valve	0-100%	R
	state	1 - Ready 2 - Cool 10 - NoCool 13 - Error (Sensor, Pump)	R
Recovery -	state	1 - Ready 2 - Cool 3 - Heat 4 - Deumid 9 - Preheating 10 - NoCool 11 - NoHeat 12 - Frost 13 - Error	R
	power	0-100%	R
	turned on	1- Off / 2- On	R
	frost protection	1- OK / 2- Error	R
	frost protection pressure	Value (Pa)	R
	frost protection - setpoint pressure	Value (Pa)	R/W
	glycol refill pump - turned on	1- Off / 2- On	R
	glycol refill pump - number starts	Value	R
	glycol - pressure	Value (Pa)	R
	glycol - low press	1- OK / 2- Error	R
Condensing unit 1 to 6 -	state	1 - Ready 2 - Cool 3 - Heat 4 - Humidity 5 - LowTempOutdoor 10 - NoCool 11 - NoHeat	R

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Item	Data point	Mapping	Read/ Write
		12 - FrostThermostat 13 - Error	
	power	0-100%	R
	turned on	1- Off / 2- On	R
	number defrosts	Value	R
	number starts	Value	R
Condensing units - units	max power	0-100%	R/W
	min temperature outdoor - cooling	Value (°C)	R/W
	block season	1-No/2-Yes	R/W
	min temperature outdoor - heating	Value (°C)	R/W
	defrost all units	1- / 2- Error	R
Electrical heater 1 or 2 -	turned on	1- Off / 2- On	R
	power	0-100%	R
	max power	0-100%	R/W
	state	1 - Ready 3 - Heat 6 - HighTempSupply 13 - Error (contactor)	R
	number starts	Value	R
Gas heater 1 or 2 -	state	1 - Ready 3 - Heat 6 - HighTempSupply 8 - HighTempFlue 11 - NoHeat 13 - Error	R
	turned on	1- Off / 2- On	R
	power	0-100%	R
	max power	0-100%	R/W
	burner - error	1- OK / 2- Error	R
	safe flue temperature emergency	1- OK / 2- Error	R
	number starts	Value	R
Gas damper 1 or 2 -	damper state	1 - OK 2 - ErrPoz 3 - ErrFbk	R
	damper position	0-100%	R
	damper - pressure	Value (Pa)	R
Gas convector	convector - turned on	1- Off / 2- On	R
	convector - number starts	Value	R
Fan supply, Fan exhaust,	state	1 - Ready 2 - Tempering 3 - Economy 4 - Comfort 5 - 3xSpeed 6 - RoomUnit 7 - TempSupply 8 - MixDamper 9 - BadAQ 10 - Press 11 - Ventilation	R

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Item	Data point	Mapping	Read/ Write
		13 - Start 14 - Release 15 - Error	
	turned on	1- Off / 2- On	R
	fan backup turned on	1- Off / 2- On	R
	speed	0-100%	R
	setpoint speed - Reduced summer	0-100%	R/W
	setpoint speed - Reduced winter	0-100%	R/W
	setpoint speed - Comfort summer	0-100%	R/W
	setpoint speed - Comfort winter	0-100%	R/W
	number starts	Value	R
	pressure	Value (Pa)	R
	flow sensor	Value (Pa)	R
	flow	Value (m3/h)	R
	service switch - alarm	1- OK / 2- Error	R
	air flow contact - alarm	1- OK / 2- Error	R
	setpoint speed - low 3xSpeed	0-100%	R/W
	setpoint pressure - Reduced	Value (Pa)	R/W
	setpoint pressure - Comfort	Value (Pa)	R/W
	setpoint flow - Reduced	Value (m3/h)	R/W
	setpoint flow - Comfort	Value (m3/h)	R/W
Fans -	speed compensation	1- OK / 2- Error	R
Fire -	state - alarm	1 - OK 2- Fire	R
Smoke sensor - 1 or 2	state -alarm	1 - OK 2- Fire	R
Fire damper 1 to 24 -	state -alarm	1 - Between 2 - Close 3 - Open 4 - Error 5 - Error	R
Fire dampers -	global - alarm	1- OK / 2- Error	R
Heat pump circuit 1, 2 or 3 -	state	1 - Ready 2 - Cool 3 - Heat 10 - NoCool 11 - NoHeat 12 - FrostThermostat 13 - Error	R
	power	0-100%	R
	turned on	1- Off / 2- On	R
	compressor	1- OK / 2- Error	R
	frequency inverter	1- OK / 2- Error	R
	high press	1- OK / 2- Error	R
	low press	1- OK / 2- Error	R
	number starts	Value	R
	compressor oil temperature	Value (°C)	R
Heat pumps	start power	0-100%	R/W
	frost protection	1- OK / 2- Error	R

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Item	Data point	Mapping	Read/ Write
	frost protection pressure	Value (Pa)	R
	frost protection - setpoint pressure	Value (Pa)	R/W
	max power	0-100%	R/W
	delay on	Value (s)	R/W
	delay off	Value (s)	R/W
	compensation	1- Off / 2- On	R/W
	compensation - min speed fans	0-100%	R/W
	compensation - max speed fans	0-100%	R/W
	condensation press sensor	Value (Pa)	R
	condensation temperature sensor	Value (°C)	R
	evaporation temperature sensor	Value (°C)	R
	temperature sensor 1	Value (°C)	R
	temperature sensor 2	Value (°C)	R
	temperature sensor 3	Value (°C)	R
	temperature sensor 4	Value (°C)	R
	temperature sensor 5	Value (°C)	R
Humidifier -	state	1 - Ready 4 - Humidity 13 - Error	R
	turned on	1- Off / 2- On	R
	power	0-100%	R
	start power	0-100%	R/W
	delay off	Value (s)	R/W
	number starts	Value	R
Boiler -	state	1- Off / 2- On	R
	water heating	1 - No 2 - Winter 3 - Always	R/W
	low water temperature	1 - No / 2 - Yes	R/W
	low outdoor temperature	1 - No 2 - Winter 3 - Heat 4 - Always	R/W
	low outdoor temperature	Value (°C)	R/W
	difference desired temperature	1 - No 2 - Winter 3 - Heat 4 - Always	R/W
	difference desired temperature	Value (°C)	R/W
	activates condensation unit	1 - No 2 - Winter 3 - Always	R/W
	Power condensation unit	0-100%	R/W
	delay turned on fans	1 - No 2- Winter 3 - Always	R/W
	delay turned on fans	Value (°C)	R/W
	delay turned on boiler	Value (min)	R/W
Internal Modbus -	Fan supply - communication	1- OK / 2- Error	R

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Item	Data point	Mapping	Read/ Write
	Fan supply - speed	0-100%	R/W
	Fan supply - sequential master logic	0- Init 1- Stop 2- Startup 3- Run 4- Shutdown 5- Acknowledge	R
	Fan supply - input power	Value (kW)	R
	Fan supply - current	Value (A)	R
	Fan supply - voltage	Value (V)	R
	Fan supply - status	Value	R
	Fan supply - status 2	Value	R
	Fan extract - communication	1- OK / 2- Error	R
	Fan extract - speed	0-100%	R/W
	Fan extract - input power	Value (kW)	R
	Fan extract - current	Value (A)	R
	Fan extract - voltage	Value (V)	R
	Fan extract - sequential master logic	1- Init 2- Stop 3- Startup 4- Run 5- Shutdown 6- Acknowledge	R
	Fan extract - status	Value	R
	Fan extract - status 2	Value	R
	Heat pump circuit 1 - suction temperature	Value * 10 (°C)	R
	Heat pump circuit 1 - evaporate temperature	Value * 10 (°C)	R
	Heat pump circuit 1 - evaporate press	Value (bar)	R
	Heat pump circuit 1 - expansion valve open	0-100%	R
	Heat pump circuit 1 - superheat	Value * 10 (°C)	R
	Heat pump circuit 1 - state expansion valve driver	Value	R
	Heat pump circuit 2 - suction temperature	Value * 10 (°C)	R
	Heat pump circuit 2 - evaporate temperature	Value * 10 (°C)	R
	Heat pump circuit 2 - evaporate press	Value (bar)	R
	Heat pump circuit 2 - expansion valve open	0-100%	R
	Heat pump circuit 2 - superheat	Value * 10 (°C)	R
	Heat pump circuit 2 - state expansion valve driver	Value	R
	Heat pump EV driver - communication	1- OK / 2- Error	R
	Electricity meter- communication	1- OK / 2- Error	R
	Room unit AMR OP - communication	1- OK / 2- Error	R
Season -	state	1- Summer / 2- Winter	R
	temperature	Value (°C)	R/W
	delay	Value (min)	R/W
Service -	period	1 - No 2 - Year 3 - Year/2 4 -Year/4	R/W

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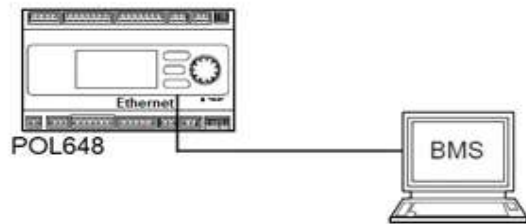
Item	Data point	Mapping	Read/ Write
		5 - Month	
Free cooling -	state	1 - Off 2 - TOutMin 4 - TSupMin 3 - TOutMax 5 - ErrSensor 6 - MinOn 7 - NormOn 8 - HardOn	R
	hand	1 - Off / 2 - On	R/W
	turned on	1- Off / 2- On	R
	number starts	Value	R
Scheduler -	mode	1- Default (Off) 2- Off 3- Protect 4- Reduced 5- Comfort	R/W
	freecooling	1- Default (Off) 2- Off 3- On	R/W

Important:

- All BACnet objects may not be accessible. The usability of some registers depends on the specific configuration of the Climatix controller.
- Integration of max 300 BACnet objects.
- R/W - the object can be read and written.
- R - the object can be read. Write to priority 5, if the object type allows it.

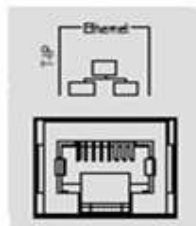
BACnet connection variants

1. BACnet IP (native or license) - ethernet port

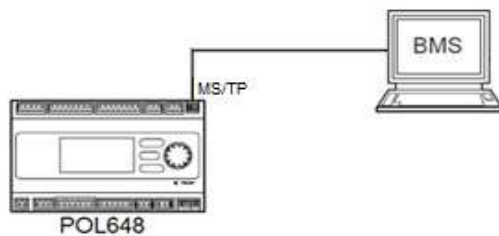


Cable connection

RJ45 jack, 8 pins (top view):



2. BACnet MS/TP - port RS485

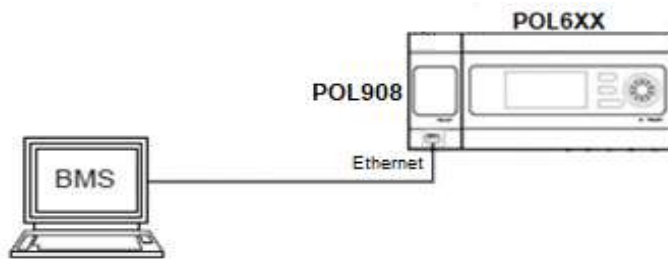


Cable connection



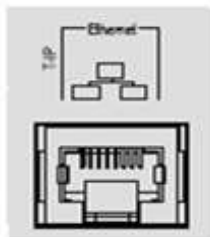
BACnet connection variants

3. BACnet IP - communication modul POL908

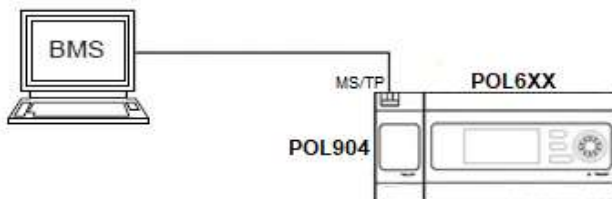


Cable connection

RJ45 jack, 8 pins (top view):



4. BACnet MS/TP - communication modul POL904



Cable connection

