Industrial heating and heating measurement and control system MANDÍK Climatix

BACnet table

for software version IHC42.01 and higher

03/2025



Item	Object name	Read/		HMI	display
	Property	Write			
Regime	xx.Aggregate - Set	R/W		01.Aggregate	Zone 1
	Priority Array - Manual Operator [0] - Auto (Scheduler)	_	- 11	Regime	Scheduler
	[1] - Off		П.	-	x
	[2] - 3rdLevel		,	Regime	Scheduler ~
	[3] - 2ndLevel				Scheduler
	[4] - 1stLevel				Off 3rdLevel
	[5] - Econom				2ndLevel
	[6] - Frost		2	Save Cancel	1stLevel
	[7] - Ventilate			•	Economy
	[/] - ventuate				ESC FrostProtect
					Ventilate
Operation	xx.Aggregate - Set	R		01.Aggregat	Zone 1
	Present Value			Regime	Scheduler 🕨 🕯
	[1] - Off			Operation	1stLevel
	[2] - 3rdLevel			State	Heat
	[3] - 2ndLevel			Power	9%
	[4] - 1stLevel			Temperatur	15.9°C
	[5] - Econom			DesiredTemperatur	17.0°C
	[6] - Frost			OperatingHour	0
	[7] - Ventilate				
State	xx.Aggregate - State	R		01.Aggregat	Zone 1
	Present Value	_		Regime	Scheduler 🕨 🕯
	[1] - Off			Operation	1stLevel
	[2] - Ventilate			State	Heat
	[3] - Start			Power	9%
	[4] - Heat			Temperatur	15.9°C
	[5] - Cool			DesiredTemperatur	
	[6] - ExtReg			OperatingHour	0
	[7] - Door				
	[8] - Window				
	[9] - Defrost				
	[10] - Error				
	[11] - FDAS				
Power	xx.Aggregate - Power	R	<u> </u>	01.Aggregat	Zone 1
	Present Value	4		Regime	Scheduler 🕨 🕯
				Operation	1stLevel
				State	Heat
	Value [%]			Power	9%
				Temperatur	15.9°C
				DesiredTemperatur OperatingHour	17.0°C 0
Room	xx.Aggregate - Room temperature	R		. 1	
temperature	Present Value	^	7.1.	01.Aggregat	Zone 1 Scheduler
				Regime Operation	1stLevel
				State	Heat
				Power	9%
	Value [°C]			Temperatur	15.9°C
				DesiredTemperatur	
				OperatingHour	0

Item	Object name Property	Read/ Write		HMI display		
Desired temperature	xx.Aggregate - Desired temperature Present Value	R	1	01.Aggregat Zone 1 Regime Scheduler	b	Â
				Operation 1stLevel State Heat		
	Value [°C]			Power 9% Temperatur 15.9°C DesiredTemperatur 17.0°C OperatingHour 0		
Operating hour	xx.Aggregate - Heat Elapsed Active Time	R	1	01.Aggregat Zone 1 Regime Scheduler	•	Ŷ
	Value [sec] / 3600			Operation 1stLevel State Heat Power 9% Temperatur 15.9°C DesiredTemperatur 17.0°C OperatingHour 0		
Operating zone number	xx.Aggregate - Zone	R	1	01.Aggregat Zone 1	•	
number	Value			Regime Scheduler Operation 1stLevel State Heat Power 9% Temperatur 15.9°C DesiredTemperatur 17.0°C OperatingHour 0	D	
Fault aggregate	xx.Aggregate - Fault	R	1	AlarmList	•	
	Present Value 0 - OK 1 - Error	_		Acknowledge Aggregate1:	>	Î
Communication	xx.Aggregate - Modbus	R	1	AlarmList	•	
failure with	Present Value]		Acknowledge	D	â
burner control	0 - OK			Automatic1: Modbus	•	U
unit	1 - Error	<u> </u>	24			
Room	xx.Aggregate - Temperature	R	1	AlarmList	•	
temperature	Status Flags	-		Acknowledge	Þ	Î
sensor failure	0000 - OK 0100 - Fault			Temperature1: noSensor		
Outdoor	Temperature outdoor	R	1	AlarmList		
temperature	Status Flags	"	-	Acknowledge	<u> </u>	-
sensor failure	0000 - OK	1		TemperatureOutdoor: noSensor	•	
	0100 - Fault			Temper dear codedor v modernos	5	
Fire alarm system	Fire fault	R	1	AlarmList		
	Present Value		-	Acknowledge	D	â
	0 - OK 1 - Error			FAS:		
Number of active	Active faults	R	1	Alarming	•	
faults	Present Value]	•	AlarmList 3	•	
	Value			AlarmHistory 13	•	

Present Value Present Valu	.0°C .0°C .0°C .0°C .0°C	
Acknowledge	evel .0°C .0°C .0°C .0°C	
Desired temperature for the 3rd heating level Value [°C] Value [evel .0°C .0°C .0°C .0°C	
Desired temperature for the 3rd heating level Desired value [°C] Desired temperature for the 3rd heating level Value [°C] Present Value R/W 1	evel .0°C .0°C .0°C .0°C	
The Break value Present Va	.0°C .0°C .0°C .0°C .0°C	b i
Topic	.0°C .0°C .0°C .0°C .0°C	b i
Ievel Value [°C] 3rdLevel 23 2ndLevel 20 1stLevel 17 Economy 14 FrostProtect 11 Ventilate 19	.0°C .0°C .0°C .0°C	b i
Desired temperature for the 2nd heating level Ventilate 10 R/W 1 OperatingZones 1. Zone 1stLevel 23 2ndLevel 20 Value [°C] 1stLevel 17 Economy 14	.0°C	b
Desired temperature for the 2nd heating level Value [°C] V.Zone - 2nd - heating Present Value R/W 1 OperatingZones 1. Zone 1stLevel >Heat 3rdLevel 20 1stLevel 17 Economy 14	evel	þ þ ĵ
temperature for the 2nd heating level Present Value 1. Zone 1stLevel 23 2ndLevel 20 1stLevel 17 Economy 14		Î
temperature for the 2nd heating level Present Value 1. Zone 1stLevel 23 2ndLevel 20 1stLevel 17 Economy 14		Î
the 2nd heating level >Heat 3rdLevel 23 2ndLevel 20 1stLevel 17 Economy 14		b
	.0°C .0°C	bbbbbb
Desired y.Zone - 1st - heating R/W 1 OperatingZones		
temperature for Present Value 1. Zone 1stLe	evel) î
the 1st heating >Heat 3rdLevel 23	.0°C	b
The state of the s	121	D
		D
		D
The Article Annual Park	100200	D
Ventilate 10	.0°C	>
Desired y.Zone - Economy - heating R/W 1 Operating Zones		N.
temperature for Present Value Present Value R/W OperatingZones 1. Zone 1 State	ave1	2
the economy >Heat	FACT	
I	.o°c	D
		D
		D
		D
	.0°C	
Ventilate 10		N

Item	Object name	Read/		HMI display			
Desired	Property y.Zone - Frost - heating	Write R/W	1			K .	
temperature for	Present Value	17,77		OperatingZones 1.Zone	1stLevel	<u> </u>	_
the frost protect	rresent value	-		>Heat	istlevei		
heating level				3rdLevel	23.0°C	D	
licating level				2ndLevel	20.0°C	D	
	 Value [°C]			1stLevel	17.0°C	•	
	Value [C]			Economy	14.0°C		
				FrostProtect	11.0°C	b	
				Ventilate	10.0°C	Þ	,
 Desired	y.Zone - Ventilate	R/W	1	OnenatingTones		•	
temperature for	Present Value	'', ''		OperatingZones 1. Zone	1stLevel		_
the ventilate level		1		>Heat	istlevei		
the ventuate level				3rdLevel	23.0°C	Ь	
				2ndLevel	20.0°C	b	
	Value [°C]			1stLevel	17.0°C	D	
	Value [°C]			Economy	14.0°C		
				FrostProtect	11.0°C		
				Ventilate	10.0°C	, b	
D t I	Zana 2nd and Pan	D //4/		1	10.0 €		*
Desired	y.Zone - 3rd - cooling	R/W	1	OperatingZones		•	M
temperature for	Present Value	-		Ventilate	10.0°C	Þ	
the 3rd cooling				>Cool			1
level				3rdLevel	25.0°C	Þ	
				2ndLevel	22.0°C	D	
	Value [°C]			1stLevel	19.0°C		
				Economy	16.0°C	D	
				2.Zone 3rdLevel	2ndLevel 23.0°C		
				3raleve1	23.0°C	Þ	¥
Desired	y.Zone - 2nd - cooling	R/W	1	OperatingZones		•	
temperature for	Present Value			Ventilate	10.0°C	D	•
the 2nd cooling				>Cool			0
level				3rdLevel	25.0°C	>	U
				2ndLevel	22.0°C	Þ	
	Value [°C]			1stLevel	19.0°C	Þ	
				Economy	16.0°C	D	
				2. Zone	2ndLevel	•	
				3rdLevel	23.0°C	>	٧
Desired	y.Zone - 1st - cooling	R/W	1	OperatingZones			
temperature for	Present Value		-	Ventilate	10.0°C	Þ	_
the 1st cooling				>Cool			0
level				3rdLevel	25.0°C	>	
				2ndLevel	22.0°C	•	
	 Value [°C]			1stLevel	19.0°C	•	
				Economy	16.0°C	D	
				2. Zone	2ndLevel	•	
				3rdLevel	23.0°C	D	¥
						100	

Item	Object name Property	Read/ Write		HMI display			
Desired	y.Zone - Economy - cooling	R/W	1	OperatingZones		•	
temperature for	Present Value		•	Ventilate	10.0°C	Þ	^
the economy				>Cool			0
cooling level				3rdLevel	25.0°C	Þ	U
				2ndLevel	22.0°C	Þ	
	Value [°C]			1stLevel	19.0°C	Þ	
				Economy	16.0°C	Þ	
				2. Zone	2ndLevel	•	
				3rdLevel	23.0°C	Þ	¥

Notes:

- xx = The number of the aggregate.
- y = The number of the operating zone.
- The names of aggregates and zones are user-configurable.
- A description of the supported object types is in the Siemens documentation: 012_CB1P3939en_BACnet.pdf "BACnet Protocol Implementation Conformance Statement".
- -The integration guide is in the Siemens documentation: 012_CB1J3962en_BACnet_IP.pdf

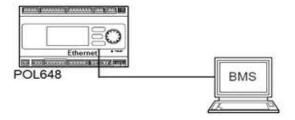
[&]quot;BACnet/IP communication with POL908.00".

BACnet native connection variants

BACnet native does not include alarm, trend and time program services.

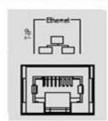
These services can be purchased as separate licenses for a specific Climatix controller.

1. BACnet IP native - ethernet port

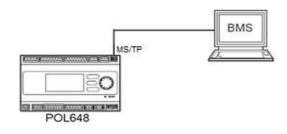


Cable connection

RJ45 jack, 8 pins (top view):



2. BACnet MS/TP native - port RS485

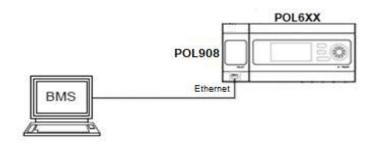


Cable connection



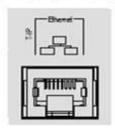
BACnet standard connection variants

3. BACnet IP standard - communication modul POL908

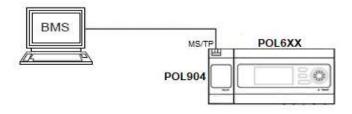


Cable connection

RJ45 jack, 8 pins (top view):



4. BACnet MS/TP standard - communication modul POL904



Cable connection

