

KKT Academy Series:

KKT BACnet Gateway



Model(s): cBoxX Series

KKT BACnet Gateway



The BACnet Gateway is designed for installation on cBoxX chiller to communicate available monitoring points between the chiller and the site's building management system via an Anybus Gateway.



KKT part number: 617062

KKT BACnet Gateway



Interface Overview - KKT BACnet Gateway



Connecting BMS to the display panel



Connect the ethernet cable from your BACnet server to the port located on the display as shown



To avoid damage, be careful and avoid applying excessive force or twisting when making this connection

Connecting BMS to the Gateway



Connect a second ethernet cable from your BACnet server to the Gateway as shown



To avoid damage, be careful and avoid applying excessive force or twisting when making this connection



Connecting voltage



The BACnet Gateway can be operated using AC (24V) or DC (+9v to +36v) voltage.

To power the Gateway from the remote display panel, connect the BACnet Gateway's power cord to the terminals provided.



BACnet Gateway

Remote Display Box





Module Box Placement



In this case, the BACnet Gateway should be mounted within 4 feet (48") of the remote display panel to ensure the cable will reach the provided terminals.







Connect the BACnet Gateway to separate power source (not provided)

BACnet Gateway



A1 A2 A3 A4 Power Port A SWA Ethernet Port
Run / Error
USB Port B SW B EIA 232 B1 B2 B3

Separate power source (not included)



Remote Display Operation



The BACnet Gateway receives signals from the chiller and must be connected to the display selected for viewing

cBoxX chillers allow for one display to be viewed at a time – either **Indoors** at the remote display panel, or **Outside** at the chiller. During normal operation, the switch should be set to IN so the MRI technician can easily view chiller status near their desk in the control room.

To change viewing location, change the switch (7S1 or 8S1) inside of the chiller's electrical box to either **"OUT"** for indoor viewing or **"IN"** in order to read the display outside at the chiller.



Connecting to your PC



Connecting your PC with the KKT BACnet Gateway

STEP 1: Connect your PC and the KKT BACnet Gateway with a "USB A to USB mini" cable.

STEP 2: Open the Program "ACM-MAPS" – NOTE: You can download the HMS (Intensis) program by clicking on the following link: <u>https://cdn.hms-networks.com/docs/librariesprovider11/software/intesis-maps-installer.exe?sfvrsn=bd554cd7_53&download=true</u>

STEP 3: Now click "Load Project" and load the "cboxX_BACnet.abmaps" file

NOTE: to access this file please click on link: <u>https://ldrv.ms/u/s!Atvp_iFl8hfMhqwetjPFg82wnaHuuQ?e=OqMHCn</u>

	OneDrive	Sign In	Create ac	ount
	😰 Share 🕂 Add to my Shared list 🞍 Download 🛷 Embed 😒 Version history		1 of 1	× O
Getting started				
News				
Latest News and Updates				
Start				
Create New Project				
Load Project				
Get Project from Device				
Import Project From US8 Host	cBoxX_BACnet.abmaps			
Recent	Hmm looks like this file doesn't have a preview we can show you.			
cBoxX_BACnet-Lusaka	Download			
cBoxX_BACnet				

Step 4: Now you can configurate the BacNet IP Gateway

Setting the IP Addresses



KKT "IP" Configuration (display at chiller or remote display panel)





Configuring the Gateway



KKT BACnet Gateway Configuration (TCP/IP)



Monitoring points



A separate document providing a list of available monitoring points is provided



Name	Type Intance	Units
DI remotecontrol	BI	
DI pump 1 flow-switch	BI	
DI pump 2 flow-switch	BI	-
DO pump 1	BO	-
DO pump 2	BO	
DO compressor 1	BO	
DO compressor 2	BO	
DO compressor 3	BO	
DO compressor 4	BO	
DO EV hot gas bypass	BO	
DO fan 1	BO	-
DO fan 2	BO	
DI pump O_E flow-switch	BO	
Dipump O MV flow-switch	BO	-
DO pump freecooler	BO	
DO fan freecooler	BO	
Di pump O MV flow-switch	BO	-
Di pump O BM flow-switch	BO	
DO collecetive fault	BO	
Lifebit	BO	-
Operating hours DO nump 1	AV.	b
Operating hours DO pump 2	AV	h
Operating hours DO compressor 1	AV.	h
Operating hours DO compressor 2	AV	h
Operating hours DO compressor 3	AV	
Operating hours DO compressor 5	AV	h
Operating hours DO Heating	AV	
Operating hours DO nump freecopler	AV	
Measuring Dump 1 prace outlet	AV.	her
Measuring Pump 2 press outlet	AV	ber
Measuring Coldwater prace	AV	ber
Measuring Tank pressure	AV	mber
Measuring Coldwater temp inlet (VP)	AV	*C
Measuring Coldwater temp outlet	AV	.0
Measuring Coldwater temp outlet 2	AV	°C
Measuring Terms cooling water	AV	.0
Measuring ambient temperature	AV	°C
Measuring Freecooler temp inlet	AV	·0
Measuring Temp, system return	AV	10
Measuring Conductivity	AV	uS
Lifecounter	AV	
Alert Sensor error monitoring Al nump pressure 1	RV	
Alert Sensor error monitoring Al pump pressure 2	BV	
Alert Sensor error monitoring Al coldwater press	RV	
Alert Genaor erfor mornering Al Coldwater press		-