

Technical Bulletin (TB0405F)

KMD-5540-

KMD-5540-003 York Gateway Interface

Issued April 28, 2005

Issue

Setup and configuration of the KMD-5540-003 York Gateway Interface

Instructions

This version of the KMD-5540 Series CommTalk is designed to work with a KMD-5210 Series LAN Controller connected on the PC Port and interfacing to a 3rd party device.

NOTE: York Gateway requires WinControl XL or WinControl XL Plus to configure interface.



LAN Controller

Jumper Configuration:

Configure for communication on COM1 (left side of board) and COM2 (right side of board). The KMD-5540-003 communicates via a RS-232. Internal jumpers are factory set to RS-232 communication for proper connection to the Gateway device.



NOTE: A slow, intermediate flash (approx. 5 second intervals) on the Com LED indicates requests by the KMD-5540 are not being answered. A rapid, constant flash indicates normal data exchange.

YorkTalk

XL

Hardware Connection:

When using RS-232 communications, terminal RX at the York Gateway device connects to the TX2 terminal and terminal TX connects to the RX2 terminal on KMD-5540-003 (COM2).



KMDigital Label Definitions for York Variables:

- a. All letters must be UPPERCASE.
- b. The first 2 digits (##) are the node number.

NOTE: The node address must be padded with a leading '0' if less than two digits. The York technician on-site will have assigned these numbers to the York devices.

- c. The next 3 characters 'YRK' identify the York label.
- d. The last 3 characters are the WRITE' function or the 'READ' page value.

NOTE: These values are on the "YorkTalk REPORT LISTING' sheet you received from York.

e. A NEW label may be created without turning off the KMD-5540-003 device.

'Write Only Values' are written to the York Chiller when the value changes.

- a. The write only values allow the user to change setpoints and the off/on status of the chiller. To read these values the page number for that point must be read.
- b. The write only values do not have descriptors, ranges, values or labels written back to the LAN Controller.

Examples:	01YRKSTA	- Chiller #1 Stop / Start
	01YRKLCH	- Chiller #1 Leaving Chilled Water Setpoint
	01YRKRLS	- Chiller #1 Remote Load Setpoint
	99YRKSTA	- Chiller #99 Stop / Start
	99YRKLCH	- Chiller #99 Leaving Chilled Water Setpoint
	99YRKRLS	- Chiller #99 Remote Load Setpoint

'Read Only Values' are periodically read from the York Chiller.

The read only values have descriptors, values, and labels written back to the LAN Controller.

Examples:	01YRKP01	- Chiller #1 Page 01 value
	01YRKP84	- Chiller #1 Page 84 value
	99YRKP01	- Chiller #99 Page 01 value
	99YRKP84	- Chiller #99 Page 84 value

CAUTION: While changing an existing label, or range of a read only value, the KMD-5540-03 should be turned off. Otherwise the original label / range may be overwritten.

York Gateway Points Installation:

NOTE: You must have WinControl to install the York Gateway Points.

1) Open WinControl and click the telephone icon in the Tool Bar at the top of the page to access the *System List.*

Icon 1	100	ystem List						
	# A	System Name	System	Connection	Phone/IP Address	Port	Baud	<u>^</u>
	1	XYZ SCHOOL	Tier 1	Direct		COMS	38400	15
	2	-				_		
	3					_		
	4							
	5							
	6			1		_		
	7							
Connect	8							
	2							
	10							4

- 2) Highlight the appropriate *System Name* and click **Connect** to access the KMD System. A Password window will appear.
- 3) Enter the password you received in A.I.C. training and click **OK**. A blank WinControl screen will appear.

4) Click the Variables icon on the Tool Bar to open the Variables window.

riables		Variables/Setpoi	nts	_			
n –	-	Description	Manual	Value	Units	Label	
	1	HEAT DEMAND SUB A		0.00	Counts	HTCALLA	-
	2	HEAT DEMAND A STPT	X	20.00	Counts	HTCALLS	
	3	COOL DEMAND A		265.64	Unused	CLOMNDA	
	4	COOL DEMAND A STPT	X	20.00	Unused	CLDMNDAS	
	5			0.00	Unused		
	6	CWS SP	X	16.00	Unused	TEMPSP	
	7	-	E I	0.00	Unused		
	8		Γ	-76.38	Unused		3.
		Ed Ed	E	rase	ok	Cancel	

NOTE: *You may see previous entries from your LAN controller if you have other programming in the LAN.*

5) Click the **Edit** button and scroll down to a row where the *Units* column is marked "Unused" and the *Description* column is blank. Enter the desired Label from the *"YorkTalk REPORTING LIST"*.

🍅 WinC	ontrolXL Plus - Registered to: Gene	2 Stutzma	n			
Access	Panel Control Data Descriptors	ystem Setu	ip PC S <u>e</u> tup j	<u>V</u> indow <u>H</u> elp		
	<u>a 1980 9 km</u>	0 2		🛆 🔝 🔣	Panel Select	
👋 Va	riables/Setpoints					
	Description	Manual	Value	Units	Label 🔺	
115	CT HI ALM SUMP LEVEL		95.00	%		
116	CT RET FROM ALM LEV		5.00	*		
117	CT ISO VLV OPEN TIME	X	0:02:00	Time		
118	CT CELL SEQUENCE		231	Counts	CTSEQ	"Unused"
119	CT LEAD		2	Counts	CTLEAD	
120	CT LAG 1		3	Counts	CTLAG1	
121	CT LAG 2		1	Counts	CTLAG2	
122			0.0	Unused	\frown	
123			0.00	Unused	01YRKSTA	
124			0.00	Unused	01YRKP34	
125	[0.00	Unused	01YRKLCH	
126			0.00	Unused	01YRKP17	
127	[1.00	Unused		
				<u> </u>		New Labels
	Auto Load End Edit	Era	ase	ок	Cancel	
Panel:	GATEWAY (M1)	E dit Mo	de		昌?	

NOTE: As soon as you click the Edit, button, it will change to End Edit.

- 6) Click the row of your new *Label* in the *Units* column. The *Configure Variables* window will appear.
- 7) Click the Type (Digital or Analog), highlight the appropriate unit, and click **OK**.
 - **NOTE:** Both the Type and Units are determined by referring to the "YorkTalk REPORTING LIST" under columns TYPE and NAME respectively.
 - **NOTE:** It is advised that you enter both the Label and the Units for each Label at the same time. This prevents backtracking and saves installation time.

# Description Manual Value Un 120 CT LAG 1 Image: Counts 3 Counts 121 CT LAG 2 Image: Counts 1 Counts 122 Image: Counts 0.00 Unused	its Label A
120 CT LAG 1 3 Counts 121 CT LAG 2 1 Counts 122 0.00 Unused	CTLAG1
121 CT LAG 2 Counts 122 0.00 Unused	
122 0.00 Unused	CTLAG2
123 Disabled Dis/Enabl	led 01YRKSTA
124 0.00 Unused	01YRKP34
125 🔲 0.00 Um Conf	igure Variables
126 0.00 Uni	used .
127 🔲 0.00 Um	/0n
128 0.00 Um Sto	p/Start
129 0.00.Um Dis	r/Enabled
130 A NETWORK VAV FLOW 0.00: CFF No	rmal/High
131 A+2A VAV FLOWS 0.00 L/S	Yes
132 SUM AHU1,2,31/S	ler 1/Boler 2
Autoload EntEdt Exam 01	Digital Format
	C Analog 0.00

- **NOTE:** If the value is digital but a digital unit has not been chosen, the Units will default to a digital range of 'OFF/ON'. If the value is analog but an analog unit has not been chosen, the Units will default to an analog range of "Unused".
- **OPTIONAL:** You may choose to 'lock' a value by clicking the check-box in the Manual column. When this box is marked wth an '**X**' the controller cannot change the data in the *Value* column.

- 8) After all labels have been entered or edited, click **Auto Load**, **End Edit**, or **OK** to complete the process.
 - Auto Load writes the labels and begins refreshing the screen every 10 seconds.
 - End Edit writes the labels and refreshes the screen once.
 - **OK** writes the labels and closes the window.

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W Va	riables/Setpoints					اع	
8	Descript	ion	Manual	Value	Units	Label	
118	CT CELL SEQUENCE		F	231	Unused	CTSEQ	
119	CT LEAD			2	Unused	CTLEAD	
120	CT LAG 1			3	Unused	CTLAG1	1
121	CT LAG 2			1	Unused	CTLAG2	
122			Г	0.00	Unused		
123	CHILLER NO 1 START		Г	Disabled	Dis/Enabled	OIYRKSTA	
124	-8I_01_S01-		Γ	08	Off/On	01YRKP34	
125	+A0_01_S01-		Γ	55.20	Deg. C	01YRKLCH	
126	AI_09_501-		Γ	0.0	Amps	01YRKP17	
127	AI_10_S01-		Ē	0.0	Amps	01YRKP18	
	Auto Load	End Edit	Era	10	OK	Cancel	