

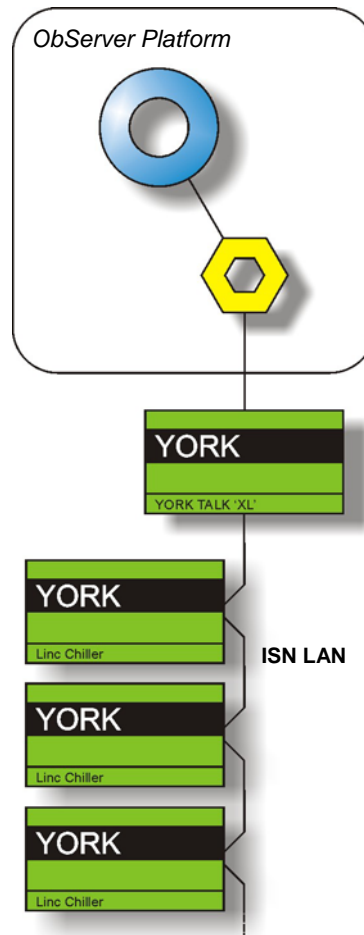
Product Engineering Guide

OSM v20 YorkTalk v11

Introduction

The YorkTalk OSM links a network of York International Controls Group ISN York Talk chillers to ObServer, via a York Talk 'XL' controller. The OSM can also connect directly to a York Talk translator.

The York Talk Linc chiller and XL have now been replaced by the York ASCII MicroGateway. The ASCII MicroGateway connected to the OSM should be configured to use the ASCII RS232 protocol.



Engineering

Step 1 – Install OSM

The YorkTalk OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure the York Talk XL

Set Node switches 1-32 and B 'ON'; switch A 'OFF'. Use the RS232 default settings of 9600 baud, 8 data bits, 1 stop bit, and no parity. **A password of '1' should be set within the XL firmware.**

If using an ASCII MicroGateway use the York ISN configuration software.

Step 3 – Configure the York Linc Chillers

After fitting the York Talk module, set the Node switches 1-32 according to a unique ISN LAN Chiller Node number (not the local Chiller Node switch number) and switch B 'ON', switch A 'OFF'. **A password of '1' should be set within the Linc firmware.** Replies from the chillers should also be formatted to start with the page number.

Step 4 – Connect COM Port to York System

Using cable, connect port 2 of the York Talk XL to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 5 – Plug in YorkTalk OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the YorkTalk OSM to an available channel. Refer to '[ObServer v20 Application Engineering Guide](#)'.

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 6 – Configure YorkTalk OSM

The COM port and operating mode are configured using objects. Use object engineering software to view and modify the module objects within the OSM.

Step 7 – Access Objects within the York System

Values from the York system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Step 8 – Troubleshooting Communications with the York system

If you experience problems accessing objects within the York System, communications can be checked using a PC operating any terminal emulation software package (such as HyperTerminal). Connect the PC RS232 port directly to the York Talk XL.

The commands below are exactly how the OSM requests values from the York Talk XL.

All command text must be in lower case. Commands are executed by a 'Carriage Return' (shown as <CR>).

Connect to the York Talk XL:

Command: logon<CR>	Response: PLEASE ENTER PASSWORD
Command: 1<CR>	

Connect to a Linc Chiller at node address 2:

Command: open 00,02<CR>	Response: Establishing link ... please wait
Command: e1e<CR>	

To view chiller data at feature 1 section 1 page 1:

Command: f01s01p01<CR>	Response: P01 UNIT NO.1 LCHW SETPOINT	46.0
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Disconnecting from a Linc Chiller:

Command: close<CR>	Response: Secondary link closed
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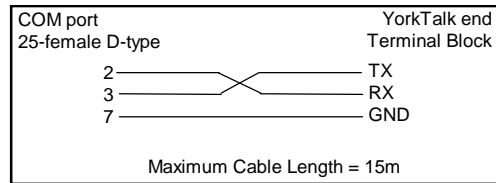
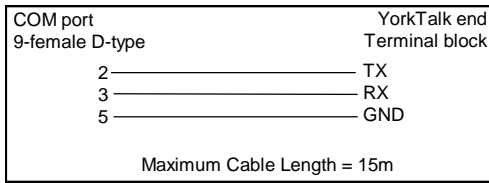
Disconnecting from the York Talk XL:

Command: logoff<CR>	Response: LINK CLOSED
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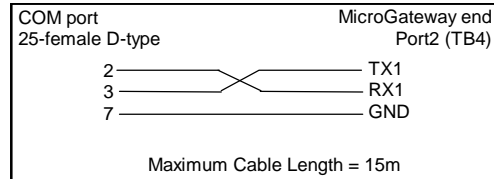
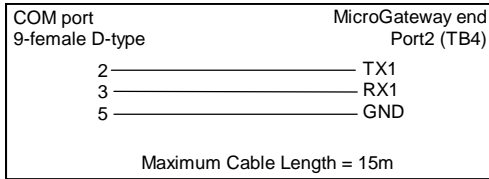
Engineering Reference

Cable Specification

The cable between COM port and the York Talk XL port 2 is as follows:



The cable between COM port and the York ASCII MicroGateway Port2 (TB4) is as follows:



Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object ^[1]	Label	R/W	Type
Sc	YorkTalk System connected to channel c	-	YorkSystem ^[2]
Mc	YorkTalk Module connected to channel c	-	[OSM v20\YorkTalk v11]

Notes

- [1] The ObServer channel number, c, is a number in the range 1...40.
- [2] YorkSystem: This object has a variable content and as such requires scanning.
 If connected to a York Talk 'XL' the object has the type [YorkTalk v11]
 If connected directly to a York Talk translator, the object has the type [YorkTalk v11\Node]