

Control IQ – YorkTalk XL Driver Details

This document contains the details for using the YorkTalk XL driver.

Personality field details in the Subsystem table

Access=[5555] = The password to gain access to the XL panels on the comm line

Addressing

The addressing schema is Chiller.Parameter

Where:

Chiller - is the address of the XL board)

Parameter - Number are as follows:

91	Chiller Start / Stop	DO	(On / Off)
92	Leaving Water Set Point	AO	(40 degrees)
93	Current Set Point	A0	(100 percent)

1	- Leaving Chilled Water Setpoint	AI
2	- Load Limit % Setpoint	AI
9	- Leaving Chilled Water Temperature	AI
10	- Entering Chilled Water Temperature	AI
11	- Evaporator Pressure	AI
12	- Condenser Pressure	AI
13	- Oil Pressure	AI
14	- Entering Condenser Water Temp	AI
15	- Leaving Condenser Water Temp	AI
16	- Percent Motor Current	AI
17	- Phase A Amps	AI
18	- Phase B Amps	AI
19	- Phase C Amps	AI
20	- Phase A-B Volts	AI
21	- Phase B-C Volts	AI
22	- Phase A-C Volts	AI
25	- Evap Saturation Temp	AI
26	- Cond Saturation Temp	AI
27	- Discharge Temp	AI
28	- Oil Temp	AI
29	- Purge Pressure	AI
30	- Run Hour	AI
31	- Cumulative Starts	AI
32	- Low Oil Transducer Pressure	AI
33	- High Oil Transducer Pressure	AI
34	- Compressor Motor Status	DI
35	- Vent Sol. Status	DI

36 - CHW Pump Status	DI
37 - Start Switch (1=Stop/Reset, 0=Run/Start)	DI
38 - CHW Pump Flow Status	DI
46 - Adaptive Capacity Control (ACC) Valid Surge Map	DI
47 - ACC New Surge Map	DI
48 - VSD Cooling Pump Running (0=Stopped)	DI
49 - VSD IEEE 519 Filter Present (0=No)	DI
50 - Surge Detection Type (0=Delta P/P, 1=Current)	DI
54 - Anti-Recycle Time Left	AI
55 - Operating Mode (1=Ser, 2=Loc, 3=Rem)	AI
56 - Operation Code (see chart)	Lookup
57 - Safety Code (see chart)	Lookup
58 - Cycling Code(see chart)	Lookup
59 - VSD Internal Temp	AI
60 - VSD Converter Heatsink Temp	AI
61 - ACC PRV position	AI
62 - ACC Frozen O/P Freq	AI
63 - Refrigerant Level Setpoint	AI
64 - Proximity Sensor Actual Position	AI
65 - Proximity Sensor Reference Position	AI
66 - Drain Line Thermocouple Temperature	AI
67 - ACC Frozen Delta P/P	DI
68 - VSD Output Voltage	DI
69 - VSD Input KW	DI
70 - VSD I/p MWH	DI
71 - VSA DC Link Voltage	DI
72 - VSD DC Link Current	DI
73 - VSD Surge Current	DI
74 - VSA Output Frequency	DI
75 - VSD Maximum Voltage THD	DI
76 - VSD Maximum Current THD	DI
77 - VSD Input KVA	DI

Operator Codes (Address x-56)

0	Normal Operation
1	High Condensor Pressure
2	Low Evaporator Pressure
3	High Current Limit
6	Cond. or Evap Transducer Error
8	RTC Battery Failure

Safety Code (Address x-57)

0	No Malfunction
1	Low Evaporator Pressure
2	Low Evaporator Pressure- Brine
3	Low Oil Pressure
4	High Condenser Pressure
5	High Evap Pressure
6	High Discharge Temperature
7	High Oil Temperature
8	Power Fail - Manual Restart

9	High Oil Pressure
10	Starter Malfunction Code
11	Auxiliary
12	Low Discharge Pressure
13	Current Unbalance
31	Faulty Oil Transducer
33	Faulty Condenser Transducer
34	Oil Transducer Error
35	Proximity Sensor Fault
36	High Drain Line Temperature
37	Faulty Proximity Sensor
38	Open Thermocouple

Cycling Code	(Address x-58)
0	No Malfunction
1	Not Used
2	Chilled Water Flow Fault
3	Remote Cycling
4	Multi-unit cycling
5	Low Water Temperature
6	Internal Time Clock
7	Power Failure - Autostart
8	Vane Mtr Switch Open
9	Anti-Recycle
10	Motor Controller
11	Power Fault
12	SSS AC Under Voltage
13	AC Under Voltage
15	AC Over Voltage
32	Low Oil Temp-Diff
39	DC Under Voltage