


NOTE	COMMUNICATIONS MODE: MODBUS RTU	This document should be submitted with the appropriate YORKTALK Points Listing	LINE UP WITH YORK TALK POINTS LISTING BY ENG PAGE #
1	All the data points that are selected using Quick Start are of the type signed integer. That is, S is set for 3 when the point is X10 and 2 when the point is X1.		
2	In the case of the optional York Talk 2 Slave unit, the Modbus addresses will start in the 0100 range, eg: 0101, 0102, 0103,....etc, scaling will match the Master unit.		
3	York Talk 1 Scaling is entered automatically by the system, the selection of the York Talk 1 option must still however be performed manually by the York technician.		
4	Contact your Local York Controls Representative for the appropriate Chiller YORKTALK Type		
5	Contact your Local York Controls Representative for the appropriate YorkTalk Points Description Listings		
6	If Quickstart address 240 is invoked by the York technician, the scaling values on pages 32 and 33 will effectively change to Divide by 10. (Actually the Range is set to a 10)		
7	Modbus communications default is 9600 baud, EVEN parity, 8 Data, 1 Stop		
8	Remember : The actual actual Modbus address transmitted in the Modbus Message packet = this address - 1)		
9	Function Types: 01= Read Coil Status; 02= Read Input Status; 03 = Read Holding Registers; 04= Read Input Registers; 05= Force Single Coil , 06 =Preset Single Register		
10			

ENG Page Ref	Chiller Point Type	Modbus References Supported	Modbus Function Types Supported	Modbus Address	SCALING TABLES BASED ON CHILLER YORKTALK TYPE		ENG Page Ref
					York Talk 2 1200 Scale Scaling	YORK TALK POINT LIST DESCRIPTION	
			(see note 9)	(see note 2,8)	(see note 4,6)	(see note 5)	
P03	Analog Input	4X	03, 06, 16	0001	Div 10	Leaving Chilled Water Setpoint	P03
P04	Analog Input	4X	03, 06, 16	0002	Div 10	Hot Water Temp Setpoint	P04
P05	Analog Input	4X	03, 06, 16	0003	Div 10	Remote Load Limit Setpoint	P05
P06	Analog Input	4X	03, 06, 16	0004	Div 10		P06
P07	Digital Input	0X, 4X	01, 03, 05, 15, 06, 16	0061	N/A	Start/Stop	P07
P08	Digital Input	0X, 4X	01, 03, 05, 15, 06, 16	0062	N/A	Display History Service Buffer #1 (0=No 1=Yes)	P08
P09	Digital Input	0X, 4X	01, 03, 05, 15, 06, 16	0063	N/A		P09
P10	Digital Input	0X, 4X	01, 03, 05, 15, 06, 16	0064	N/A		P10
P11	Analog Output	3X, 4X	03, 04	0005	X 10	Leaving Chilled Water Temperature	P11
P12	Analog Output	3X, 4X	03, 04	0006	X 10	Entering Chilled Water Temperature	P12
P13	Analog Output	3X, 4X	03, 04	0007	X 10	First Generator #1 Pressure	P13
P14	Analog Output	3X, 4X	03, 04	0008	X 10	First Generator #1 Temp	P14
P15	Analog Output	3X, 4X	03, 04	0009	X 10	First Generator #2 Pressure	P15
P16	Analog Output	3X, 4X	03, 04	0010	X 10	Entering Condenser Water Temperature	P16
P17	Analog Output	3X, 4X	03, 04	0011	X 10	Leaving Condenser Water Temperature	P17
P18	Analog Output	3X, 4X	03, 04	0012	X 10	First Generator #2 Temp	P18
P19	Analog Output	3X, 4X	03, 04	0013	X 10	Leaving Hot Water Temp	P19
P20	Analog Output	3X, 4X	03, 04	0014	X 10	Entering Hot Water Temp	P20
P21	Analog Output	3X, 4X	03, 04	0015	X 10		P21
P22	Analog Output	3X, 4X	03, 04	0016	X 10	Burner Command (Gas/Oil), Percent Loading (Steam)	P22
P23	Analog Output	3X, 4X	03, 04	0017	X 10		P23
P24	Analog Output	3X, 4X	03, 04	0018	X 10		P24
P25	Analog Output	3X, 4X	03, 04	0019	X 10	Leaving Chilled Water Temp Actual Setpoint	P25
P26	Analog Output	3X, 4X	03, 04	0020	X 1	Leaving Hot Water Temp Actual Setpoint	P26
P27	Analog Output	3X, 4X	03, 04	0021	X 10	Refrigerant Temp	P27
P28	Analog Output	3X, 4X	03, 04	0022	X 10	Solution Temperature	P28
P29	Analog Output	3X, 4X	03, 04	0023	X 10		P29
P30	Analog Output	3X, 4X	03, 04	0024	X 10	Purge Pump Pressure	P30
P31	Analog Output	3X, 4X	03, 04	0025	X 1	Purge Tank Pressure	P31
P32	Analog Output	3X, 4X	03, 04	0026	X 1 (see note 6)	Accumulated Operating Hours	P32
P33	Analog Output	3X, 4X	03, 04	0027	X 1 (see note 6)	Accumulated System Starts	P33
P34	Analog Output	3X, 4X	03, 04	0028	X 10	Automatic Lifetime Purge Count	P34
P35	Analog Output	3X, 4X	03, 04	0029	X 10	Manual Lifetime Purge Count	P35
P36	Digital Output	0X, 1X, 4X	01, 02, 03	0065	N/A	Refrigerant Pump Status	P36
P37	Digital Output	0X, 1X, 4X	01, 02, 03	0066	N/A	Condenser Pump Status	P37
P38	Digital Output	0X, 1X, 4X	01, 02, 03	0067	N/A	Chilled Water Pump Status (0=Off 1=On)	P38
P39	Digital Output	0X, 1X, 4X	01, 02, 03	0068	N/A	Start Switch Status	P39
P40	Digital Output	0X, 1X, 4X	01, 02, 03	0069	N/A	Hot Water Pump Status	P40
P41	Digital Output	0X, 1X, 4X	01, 02, 03	0070	N/A	Solution Pump 1 Status	P41
P42	Digital Output	0X, 1X, 4X	01, 02, 03	0071	N/A	Solution Pump 2 Status	P42
P43	Digital Output	0X, 1X, 4X	01, 02, 03	0072	N/A	Purge Pump Motor Status (0=Off 1=On)	P43
P44	Digital Output	0X, 1X, 4X	01, 02, 03	0073	N/A	Chilled Water Flow Switch Status (0=Open 1=On)	P44
P45	Digital Output	0X, 1X, 4X	01, 02, 03	0074	N/A	Hot Water Flow Switch Status	P45
P46	Digital Output	0X, 1X, 4X	01, 02, 03	0075	N/A	Condenser Water Flow Switch Status (0=Open 1=Closed)	P46
P47	Digital Output	0X, 1X, 4X	01, 02, 03	0076	N/A	Dilution Cycle Active (0=No 1=Yes)	P47
P48	Digital Output	0X, 1X, 4X	01, 02, 03	0077	N/A		P48
P49	Digital Output	0X, 1X, 4X	01, 02, 03	0078	N/A		P49
P50	Digital Output	0X, 1X, 4X	01, 02, 03	0079	N/A		P50
P51	Digital Output	0X, 1X, 4X	01, 02, 03	0080	N/A		P51
P52	Digital Output	0X, 1X, 4X	01, 02, 03	0081	N/A		P52
P53	Digital Output	0X, 1X, 4X	01, 02, 03	0082	N/A		P53
P54	Digital Output	0X, 1X, 4X	01, 02, 03	0083	N/A		P54
P55	Digital Output	0X, 1X, 4X	01, 02, 03	0084	N/A		P55
P56	Analog Output	3X, 4X	03, 04	0030	X 1	Operating Code (0=clg; 1=htg; 2=htg/clg)	P56
P57	Analog Output	3X, 4X	03, 04	0031	X 1	Operating Mode (0=Service 1=Local 2=Remote)	P57
P58	Analog Output	3X, 4X	03, 04	0032	X 1	Operational Code (Warnings)	P58
P59	Analog Output	3X, 4X	03, 04	0033	X 1	Safety Shutdown Code	P59
P60	Analog Output	3X, 4X	03, 04	0034	X 1	Cycling Shutdown Code	P60
P61	Analog Output	3X, 4X	03, 04	0035	X 10		P61
P62	Analog Output	3X, 4X	03, 04	0036	X 10		P62
P63	Analog Output	3X, 4X	03, 04	0037	X 1		P63
P64	Analog Output	3X, 4X	03, 04	0038	X 1		P64
P65	Analog Output	3X, 4X	03, 04	0039	X 1		P65
P66	Analog Output	3X, 4X	03, 04	0040	X 1	Remote Loading Setpoint	P66
P67	Analog Output	3X, 4X	03, 04	0041	X 1	Maximum Loading	P67
P68	Analog Output	3X, 4X	03, 04	0042	X 10	7 Day Purge Total	P68
P69	Analog Output	3X, 4X	03, 04	0043	X 1	Pulldown Minutes Setpoint	P69
P70	Analog Output	3X, 4X	03, 04	0044	X 1	Pulldown Minutes Left	P70
P71	Analog Output	3X, 4X	03, 04	0045	X 1	Pulldown Loading Start Setpoint	P71
P72	Analog Output	3X, 4X	03, 04	0046	X 1	Pulldown Loading Stop Setpoint	P72
P73	Analog Output	3X, 4X	03, 04	0047	X 1	Present Calculated Pulldown Loading	P73
P74	Analog Output	3X, 4X	03, 04	0048	X 1		P74
P75	Analog Output	3X, 4X	03, 04	0049	X 1		P75
P76	Analog Output	3X, 4X	03, 04	0050	X 10		P76
P77	Analog Output	3X, 4X	03, 04	0051	X 10		P77
P78	Analog Output	3X, 4X	03, 04	0052	X 10		P78
P79	Analog Output	3X, 4X	03, 04	0053	X 1		P79
P80	Digital Output	0X, 1X, 4X	01, 02, 03	0085	N/A	Input Energy Supply (0=Gas/Oil 1=Steam)	P80
P81	Digital Output	0X, 1X, 4X	01, 02, 03	0086	N/A		P81
P82	Digital Output	0X, 1X, 4X	01, 02, 03	0087	N/A		P82
P83	Digital Output	0X, 1X, 4X	01, 02, 03	0088	N/A		P83
P84	Digital Output	0X, 1X, 4X	01, 02, 03	0089	N/A		P84

ENG PAGE	ASCII PAGE	YP Operational Code	ENG PAGE	ASCII PAGE	YP Safety Code	ENG PAGE	ASCII PAGE	YP Cycling Code
P58	P56	OPER.CODE	P59	P57	SAFETY.CODE	P60	P58	CYCLING.CODE
0	0	No Malfunction	0	0	No Malfunction	0	0	No Malfunction
1	1	Bad Battery	1	1	Solution Pump Fault	1	1	Hot Water Flow Fault
2	2	Refrigerant Temp < 40.0 F	2	2	Refrigerant Pump Fault	2	2	Cond Water Flow Fault
3	3	Gen Press > 12.76 PSIA	3	3	Gen HI Pressure-Digital	3	3	Power Failure-Auto Restart
4	4	Gen 1 Press > 12.76 PSIA	4	4	Gen HI Temp-Digital	4	4	Low Water Temp
5	5	Gen 2 Press > 12.76 PSIA	5	5	Auxiliary	5	5	Remote Cycling
6	6	Gen Temp > 326.0 F	6	6	Power Fail-Man Restart	6	6	Multi-Unit Cycling
7	7	Gen 1 Temp > 326.0 F	7	7	Low Solution Level	7	7	Time Clock
8	8	Gen 2 Temp > 326.0 F	8	8	Low Refrigerant Temp-Digital	8	8	Hot Water Temp
9	9	Low Cond Water Temp	9	9	Chilled Water Flow Fault	9	9	Unit Loaded Above 10%
10	10	Not Used	10	10	Burner Alarm Fault	10	10	Chilled Water Temp Below Setp
11	11	Not Used	11	11	Burner Manual Shutdown	11	11	Hot Water Temp Above Setp
12	12	Not Used	12	12	Low Sol'n Lvl @ Power Fail	36	36	Burner Rate Fault
13	13	Purge Pump Overloads Open	13	13	Low Sol'n Lvl @ Cond Flow Fail	38	38	Standby Power
14	14	Purge Transducer Fault	14	14	Low Refrigerant Temp-Analog	39	39	Standby Lockout
15	15	Purge Pump Fault	30	30	Cond Water Flow Lost			
16	16	Solution Sensor Fault	31	31	Gen High Press-Analog			
17	17	HI Cond Water Temp	32	32	Gen High Temp-Analog			
18	18	Not Used	33	33	Sol'n Lvl/Refrig Sol'n OL'S			
19	19	Excess Purge	34	34	Sol'n Lvl/Low Refrig Temp			
20	20	High Concentration Warning	35	35	Sol'n Lvl/CW Flow SW Fault			
21	21	High Purge Pressure Warning	37	37	High Concentration Fault			
22	22	Auto Purge Fault	40	40	Sol'n Lvl/Limited Dilution			
23	23	Purge Pump Error	41	41	Limited Dilution Override			
24	24	Solenoid 2 Fault	42	42	Sol'n Lvl/Refrigerant Overloads			
25	25	Solenoid 2 Absorber	43	43	Sol'n Lvl/Sol'n Overloads			
26	26	Purge Pump Absorber						