MCLU-MB Ver3.01 **Modbus Memory Map**

Virtual Modbus Parameter Motherboard — Address

Holding Register: Main Parameters - 50 Words | Reserved | Cycle 1 - Parameters - 50 Words | Reserved | Cycle 2 - Parameters - 50 Words | Reserved | Cycle 3 - Parameters - 50 Words | Reserved | Cycle 4 - Parameters - 50 Words | Reserved | Function | Reserved | Modem Parameter | Reserved

Input Register: Status Monitoring & Errors Log - 57 words | RESERVED | Cycle 1 Error Log - 10 Wds | Cycle 2 Error Log - 10 Wds | Cycle 3 Error Log - 10 Wds | Cycle 4 Error Log - 10 Wds

MCLU-MB Ver3.01 **Modbus Holding Register Address**

Holding Register Address / Byte Number

Parameter Code	Default Value	Sub-Folder Name	Folder Name	Parameter Description	Parameter Name
D1/L1	0	Analog Input - Discharge	Main Qy66	Discharge Pressure Trans Status	Dis Press E/D
J1/J1	0	Analog Input - Discharge	Main Qy66	Discharge Pressure Offset(Bar)	Dis Press Offset
J2/J2	0	Analog Input - Suction	Main Qy66	Suction Pressure Trans Status	Suct Press E/D
J3/J3	0	Analog Input - Suction	Main Qy66	Suction Pressure Offset(Bar)	Suct Press Offset
J4/J4	0	Analog Input - Suction	Main Qy66	Suction Temp Sensor Status	Suct Temp E/D
P5/P5	0	Analog Input - Suction	Main Qy66	Suction Temp Sensor Offset	Suct Temp Offset
C6/L2	0	Analog Input - Temp	Main Qy66	Discharge Temp Sensor Status	Dis Temp E/D
S3/S3	0	Analog Input - Temp	Main Qy66	Discharge Temp Sensor Offset	Dis Temp Offset
A1/A1	0	Analog Input - Temp	Main Qy66	Ambient NTC E/D	Ambient NTC E/D
P6/P6	0	Analog Input - Temp	Main Qy66	Suction Temp Sensor Status	Suct NTC E/D
P7/P7	0	Analog Input - Temp	Main Qy66	Suction Temp Sensor Offset	Suct NTC Offs
C8/C8	0	Analog Input - Temp	Main Qy66	Discharge Temp Sensor Status	Dis NTC E/D
S9/S9	0	Analog Input - Temp	Main Qy66	Discharge Temp Sensor Offset	Dis NTC Offs
S10/S10	0	Analog Input - Temp	Main Qy66	Reserved Temp Sensor Status	Reserved
S11/S11	0	Analog Input - Temp	Main Qy66	Reserved Temp Sensor Offset	Reserved
C12/C12	0	Analog Input - Temp	Main Qy66	Cross Mb Status	Cross Mb Status
S13/S13	0	Analog Input - Temp	Main Qy66	Cross Mb Offset	Cross Mb Offset
S14/S14	0	Analog Input - Temp	Main Qy66	Reserved	Reserved
C15/C15	0	Analog Input - Temp	Main Qy66	Reserved	Reserved
D16/D16	0	Analog Input - Temp	Main Qy66	Reserved	Reserved
B17/B17	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Speed	Cyc1 Actual Speed
B18/B18	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Speed (Offset)	Cyc1 Actual Speed Offset
A19	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Current	Cyc1 Actual Current
A20	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Current (Offset)	Cyc1 Actual Current Offset
B21/B21	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Voltage	Cyc1 Actual Voltage
B22/B22	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Voltage (Offset)	Cyc1 Actual Voltage Offset
B23/B23	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Power	Cyc1 Actual Power
B24/B24	0	Analog Output - fan	Main Qy66	Cycle 1 Actual Power (Offset)	Cyc1 Actual Power Offset
P1	1	Digital Input - Flow	Main Qy66	Water Flow Switch Status	Water Flow Switch
P2	1	Digital Input - Flow	Main Qy66	Water Flow Switch Offset	Water Flow Switch Offset
P3	1	Digital Input - LP	Main Qy66	Low Pressure Switch Status	Low Pressure Switch
P4	1	Digital Input - LP	Main Qy66	Low Pressure Switch Offset	Low Pressure Switch Offset
P11	1	Digital Input - OC	Main Qy66	Compressor Overload Status	Compressor Overload
P12	1	Digital Input - OC	Main Qy66	Compressor Overload Offset	Compressor Overload Offset
P13	1	Digital Input - OC	Main Qy66	Fan Overload Status	Fan Overload
P14	1	Digital Input - OC	Main Qy66	Fan Overload Offset	Fan Overload Offset
P15	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P16	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P21	1	Digital Input - LP	Main Qy66	Low Pressure Switch Status	Low Pressure Switch
P22	1	Digital Input - LP	Main Qy66	Low Pressure Switch Offset	Low Pressure Switch Offset
P23	1	Digital Input - OC	Main Qy66	Compressor Overload Status	Compressor Overload
P24	1	Digital Input - OC	Main Qy66	Compressor Overload Offset	Compressor Overload Offset
P25	1	Digital Input - OC	Main Qy66	Fan Overload Status	Fan Overload
P26	1	Digital Input - OC	Main Qy66	Fan Overload Offset	Fan Overload Offset
P31	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P32	1	Digital Input - OC	Main Qy66	Reserved	Reserved
B-1	0	ED Controller	Main Qy66	ED Controller Mode	ED Controller Mode
C	0	ED Controller	Main Qy66	ED Controller Set	ED Controller Set
D	0	ED Controller	Main Qy66	ED Controller Bar	ED Controller Bar
E	0	ED Controller	Main Qy66	ED Controller Bar	ED Controller Bar
F	0	ED Controller	Main Qy66	ED Controller Bar	ED Controller Bar
G	0	ED Controller	Main Qy66	ED Controller Bar	ED Controller Bar
H	0	ED Controller	Main Qy66	ED Controller Bar	ED Controller Bar
B11	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B12	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B13	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B14	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B15	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B16	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B17	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B18	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B19	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
B20	0	Superheat Control	Main Qy66	Superheat Control	Superheat Control
P5	1	Digital Input - Flow	Main Qy66	Phase Control Status	Phase Control
P6	1	Digital Input - Flow	Main Qy66	Phase Control Offset	Phase Control
P7	1	Digital Input - LP	Main Qy66	Phase Control Error Kelvin Time	Phase Control
P8	1	Digital Input - LP	Main Qy66	Phase Control Error Count	Phase Control
P9	1	Digital Input - OC	Main Qy66	Phase Control Reset Delay	Phase Control
P10	1	Digital Input - OC	Main Qy66	Phase Control Reset Delay Offset	Phase Control
P17	1	Digital Input - OC	Main Qy66	Phase Control Error Kelvin Time	Phase Control
P18	1	Digital Input - OC	Main Qy66	Phase Control Reset Delay	Phase Control
P19	1	Digital Input - OC	Main Qy66	Phase Control Reset Delay Offset	Phase Control
P20	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P27	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P28	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P29	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P30	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P33	1	Digital Input - OC	Main Qy66	Reserved	Reserved
P34	1	Digital Input - OC	Main Qy66	Reserved	Reserved
D1	0	Analog Input - Discharge	Cycle - 1	Discharge Pressure Trans Status	Dis Press E/D
J1	0	Analog Input - Discharge	Cycle - 1	Discharge Pressure Offset(Bar)	Dis Press Offset
J2	0	Analog Input - Suction	Cycle - 1	Suction Pressure Trans Status	Suct Press E/D
J3	0	Analog Input - Suction	Cycle - 1	Suction Pressure Offset(Bar)	Suct Press Offset
J4	0	Analog Input - Suction	Cycle - 1	Suction Temp Sensor Status	Suct Temp E/D
P5	0	Analog Input - Suction	Cycle - 1	Suction Temp Sensor Offset	Suct Temp Offset
C6	0	Analog Input - Temp	Cycle - 1	Discharge Temp Sensor Status	Dis Temp E/D
S7	0	Analog Input - Temp	Cycle - 1	Discharge Temp Sensor Offset	Dis Temp Offset
S8	0	Analog Input - Temp	Cycle - 1	Reserved Temp Sensor Status	Reserved
S9	0	Analog Input - Temp	Cycle - 1	Reserved Temp Sensor Offset	Reserved
S10	0	Analog Input - Temp	Cycle - 1	Reserved	Reserved
C11	0	Analog Input - Temp	Cycle - 1	Reserved	Reserved
D12	0	Analog Input - Temp	Cycle - 1	Reserved	Reserved
B13	0	Analog Output - fan	Cycle - 1	Actual Speed	Actual Speed
B14	0	Analog Output - fan	Cycle - 1	Actual Speed (Offset)	Actual Speed Offset
A15	0	Analog Output - fan	Cycle - 1	Actual Current	Actual Current
A16	0	Analog Output - fan	Cycle - 1	Actual Current (Offset)	Actual Current Offset
B17	0	Analog Output - fan	Cycle - 1	Actual Voltage	Actual Voltage
B18	0	Analog Output - fan	Cycle - 1	Actual Voltage (Offset)	Actual Voltage Offset
B19	0	Analog Output - fan	Cycle - 1	Actual Power	Actual Power
B20	0	Analog Output - fan	Cycle - 1	Actual Power (Offset)	Actual Power Offset
P1	1	Digital Input - Flow	Cycle - 1	Water Flow Switch Status	Water Flow Switch
P2	1	Digital Input - Flow	Cycle - 1	Water Flow Switch Offset	Water Flow Switch Offset
P3	1	Digital Input - LP	Cycle - 1	Low Pressure Switch Status	Low Pressure Switch
P4	1	Digital Input - LP	Cycle - 1	Low Pressure Switch Offset	Low Pressure Switch Offset
P11	1	Digital Input - OC	Cycle - 1	Compressor Overload Status	Compressor Overload
P12	1	Digital Input - OC	Cycle - 1	Compressor Overload Offset	Compressor Overload Offset
P13	1	Digital Input - OC	Cycle - 1	Fan Overload Status	Fan Overload
P14	1	Digital Input - OC	Cycle - 1	Fan Overload Offset	Fan Overload Offset
P15	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P16	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P21	1	Digital Input - LP	Cycle - 1	Low Pressure Switch Status	Low Pressure Switch
P22	1	Digital Input - LP	Cycle - 1	Low Pressure Switch Offset	Low Pressure Switch Offset
P23	1	Digital Input - OC	Cycle - 1	Compressor Overload Status	Compressor Overload
P24	1	Digital Input - OC	Cycle - 1	Compressor Overload Offset	Compressor Overload Offset
P25	1	Digital Input - OC	Cycle - 1	Fan Overload Status	Fan Overload
P26	1	Digital Input - OC	Cycle - 1	Fan Overload Offset	Fan Overload Offset
P31	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P32	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
B-1	0	ED Controller	Cycle - 1	ED Controller Mode	ED Controller Mode
C	0	ED Controller	Cycle - 1	ED Controller Set	ED Controller Set
D	0	ED Controller	Cycle - 1	ED Controller Bar	ED Controller Bar
E	0	ED Controller	Cycle - 1	ED Controller Bar	ED Controller Bar
F	0	ED Controller	Cycle - 1	ED Controller Bar	ED Controller Bar
G	0	ED Controller	Cycle - 1	ED Controller Bar	ED Controller Bar
H	0	ED Controller	Cycle - 1	ED Controller Bar	ED Controller Bar
B11	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B12	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B13	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B14	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B15	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B16	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B17	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B18	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B19	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
B20	0	Superheat Control	Cycle - 1	Superheat Control	Superheat Control
P5	1	Digital Input - Flow	Cycle - 1	Phase Control Status	Phase Control
P6	1	Digital Input - Flow	Cycle - 1	Phase Control Offset	Phase Control
P7	1	Digital Input - LP	Cycle - 1	Phase Control Error Kelvin Time	Phase Control
P8	1	Digital Input - LP	Cycle - 1	Phase Control Error Count	Phase Control
P9	1	Digital Input - OC	Cycle - 1	Phase Control Reset Delay	Phase Control
P10	1	Digital Input - OC	Cycle - 1	Phase Control Reset Delay Offset	Phase Control
P17	1	Digital Input - OC	Cycle - 1	Phase Control Error Kelvin Time	Phase Control
P18	1	Digital Input - OC	Cycle - 1	Phase Control Reset Delay	Phase Control
P19	1	Digital Input - OC	Cycle - 1	Phase Control Reset Delay Offset	Phase Control
P20	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P27	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P28	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P29	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P30	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P33	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
P34	1	Digital Input - OC	Cycle - 1	Reserved	Reserved
D1	0	Analog Input - Discharge	Cycle - 2	Discharge Pressure Trans Status	Dis Press E/D
J1	0	Analog Input - Discharge	Cycle - 2	Discharge Pressure Offset(Bar)	Dis Press Offset
J2	0	Analog Input - Suction	Cycle - 2	Suction Pressure Trans Status	Suct Press E/D
J3	0	Analog Input - Suction	Cycle - 2	Suction Pressure Offset(Bar)	Suct Press Offset
J4	0	Analog Input - Suction	Cycle - 2	Suction Temp Sensor Status	Suct Temp E/D
P5	0	Analog Input - Suction	Cycle - 2	Suction Temp Sensor Offset	Suct Temp Offset
C6	0	Analog Input - Temp	Cycle - 2	Discharge Temp Sensor Status	Dis Temp E/D
S7	0	Analog Input - Temp	Cycle - 2	Discharge Temp Sensor Offset	Dis Temp Offset
S8	0	Analog Input - Temp	Cycle - 2	Reserved Temp Sensor Status	Reserved
S9	0	Analog Input - Temp	Cycle - 2	Reserved Temp Sensor Offset	Reserved
S10	0	Analog Input - Temp	Cycle - 2	Reserved	Reserved
C11	0	Analog Input - Temp	Cycle - 2	Reserved	Reserved
D12	0	Analog Input - Temp	Cycle - 2	Reserved	Reserved
B13	0	Analog Output - fan	Cycle - 2	Actual Speed	Actual Speed
B14	0	Analog Output - fan	Cycle - 2	Actual Speed (Offset)	Actual Speed Offset
A15	0	Analog Output - fan	Cycle - 2	Actual Current	Actual Current
A16	0	Analog Output - fan	Cycle - 2	Actual Current (Offset)	Actual Current Offset
B17	0	Analog Output - fan	Cycle - 2	Actual Voltage	Actual Voltage
B18	0	Analog Output - fan	Cycle - 2	Actual Voltage (Offset)	Actual Voltage Offset
B19	0	Analog Output - fan	Cycle - 2	Actual Power	Actual Power
B20	0	Analog Output - fan	Cycle - 2	Actual Power (Offset)	Actual Power Offset
P1	1	Digital Input - Flow	Cycle - 2	Water Flow Switch Status	Water Flow Switch
P2	1	Digital Input - Flow	Cycle - 2	Water Flow Switch Offset	Water Flow Switch Offset
P3	1	Digital Input - LP	Cycle - 2	Low Pressure Switch Status	Low Pressure Switch
P4	1	Digital Input - LP	Cycle - 2	Low Pressure Switch Offset	Low Pressure Switch Offset
P11	1	Digital Input - OC	Cycle - 2	Compressor Overload Status	Compressor Overload
P12	1	Digital Input - OC	Cycle - 2	Compressor Overload Offset	Compressor Overload Offset
P13	1	Digital Input - OC	Cycle - 2	Fan Overload Status	Fan Overload
P14	1	Digital Input - OC	Cycle - 2	Fan Overload Offset	Fan Overload Offset
P15	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P16	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P21	1	Digital Input - LP	Cycle - 2	Low Pressure Switch Status	Low Pressure Switch
P22	1	Digital Input - LP	Cycle - 2	Low Pressure Switch Offset	Low Pressure Switch Offset
P23	1	Digital Input - OC	Cycle - 2	Compressor Overload Status	Compressor Overload
P24	1	Digital Input - OC	Cycle - 2	Compressor Overload Offset	Compressor Overload Offset
P25	1	Digital Input - OC	Cycle - 2	Fan Overload Status	Fan Overload
P26	1	Digital Input - OC	Cycle - 2	Fan Overload Offset	Fan Overload Offset
P31	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P32	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
B-1	0	ED Controller	Cycle - 2	ED Controller Mode	ED Controller Mode
C	0	ED Controller	Cycle - 2	ED Controller Set	ED Controller Set
D	0	ED Controller	Cycle - 2	ED Controller Bar	ED Controller Bar
E	0	ED Controller	Cycle - 2	ED Controller Bar	ED Controller Bar
F	0	ED Controller	Cycle - 2	ED Controller Bar	ED Controller Bar
G	0	ED Controller	Cycle - 2	ED Controller Bar	ED Controller Bar
H	0	ED Controller	Cycle - 2	ED Controller Bar	ED Controller Bar
B11	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B12	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B13	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B14	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B15	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B16	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B17	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B18	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B19	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
B20	0	Superheat Control	Cycle - 2	Superheat Control	Superheat Control
P5	1	Digital Input - Flow	Cycle - 2	Phase Control Status	Phase Control
P6	1	Digital Input - Flow	Cycle - 2	Phase Control Offset	Phase Control
P7	1	Digital Input - LP	Cycle - 2	Phase Control Error Kelvin Time	Phase Control
P8	1	Digital Input - LP	Cycle - 2	Phase Control Error Count	Phase Control
P9	1	Digital Input - OC	Cycle - 2	Phase Control Reset Delay	Phase Control
P10	1	Digital Input - OC	Cycle - 2	Phase Control Reset Delay Offset	Phase Control
P17	1	Digital Input - OC	Cycle - 2	Phase Control Error Kelvin Time	Phase Control
P18	1	Digital Input - OC	Cycle - 2	Phase Control Reset Delay	Phase Control
P19	1	Digital Input - OC	Cycle - 2	Phase Control Reset Delay Offset	Phase Control
P20	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P27	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P28	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P29	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P30	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P33	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
P34	1	Digital Input - OC	Cycle - 2	Reserved	Reserved
D1	0	Analog Input - Discharge	Cycle - 3	Discharge Pressure Trans Status	Dis Press E/D
J1	0	Analog Input - Discharge	Cycle - 3	Discharge Pressure Offset(Bar)	Dis Press Offset
J2	0	Analog Input - Suction	Cycle - 3	Suction Pressure Trans Status	Suct Press E/D
J3	0	Analog Input - Suction	Cycle - 3	Suction Pressure Offset(Bar)	Suct Press Offset
J4	0	Analog Input - Suction	Cycle - 3	Suction Temp Sensor Status	Suct Temp E/D
P5	0	Analog Input - Suction	Cycle - 3	Suction Temp Sensor Offset	Suct Temp Offset
C6	0	Analog Input - Temp	Cycle - 3	Discharge Temp Sensor Status	Dis Temp E/D
S7	0	Analog Input - Temp	Cycle - 3	Discharge Temp Sensor Offset	Dis Temp Offset
S8	0	Analog Input - Temp	Cycle - 3	Reserved Temp Sensor Status	Reserved
S9	0	Analog Input - Temp	Cycle - 3	Reserved Temp Sensor Offset	Reserved
S10	0	Analog Input - Temp	Cycle - 3	Reserved	Reserved
C11	0	Analog Input - Temp	Cycle - 3	Reserved	Reserved
D12	0	Analog Input - Temp	Cycle - 3	Reserved	Reserved
B13	0	Analog Output - fan	Cycle - 3	Actual Speed	Actual Speed
B14	0	Analog Output - fan	Cycle - 3	Actual Speed (Offset)	Actual Speed Offset
A15	0	Analog Output - fan	Cycle - 3	Actual Current	Actual Current
A16	0	Analog Output - fan	Cycle - 3	Actual Current (Offset)	Actual Current Offset
B17	0	Analog Output - fan	Cycle - 3	Actual Voltage	Actual Voltage
B18	0	Analog Output - fan	Cycle - 3	Actual Voltage (Offset)	Actual Voltage Offset
B19	0	Analog Output - fan	Cycle - 3	Actual Power	Actual Power
B20	0	Analog Output - fan	Cycle - 3	Actual Power (Offset)	Actual Power Offset
P1	1	Digital Input - Flow	Cycle - 3	Water Flow Switch Status	Water Flow Switch
P2	1	Digital Input - Flow	Cycle - 3	Water Flow Switch Offset	Water Flow Switch Offset
P3	1	Digital Input - LP	Cycle - 3	Low Pressure Switch Status	Low Pressure Switch
P4	1	Digital Input - LP	Cycle - 3	Low Pressure Switch Offset	Low Pressure Switch Offset
P11	1	Digital Input - OC	Cycle - 3	Compressor Overload Status	Compressor Overload
P12	1	Digital Input - OC	Cycle - 3	Compressor Overload Offset	Compressor Overload Offset
P13	1	Digital Input - OC	Cycle - 3	Fan Overload Status	Fan Overload
P14	1	Digital Input - OC	Cycle - 3	Fan Overload Offset	Fan Overload Offset
P15	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P16	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P21	1	Digital Input - LP	Cycle - 3	Low Pressure Switch Status	Low Pressure Switch
P22	1	Digital Input - LP	Cycle - 3	Low Pressure Switch Offset	Low Pressure Switch Offset
P23	1	Digital Input - OC	Cycle - 3	Compressor Overload Status	Compressor Overload
P24	1	Digital Input - OC	Cycle - 3	Compressor Overload Offset	Compressor Overload Offset
P25	1	Digital Input - OC	Cycle - 3	Fan Overload Status	Fan Overload
P26	1	Digital Input - OC	Cycle - 3	Fan Overload Offset	Fan Overload Offset
P31	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P32	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
B-1	0	ED Controller	Cycle - 3	ED Controller Mode	ED Controller Mode
C	0	ED Controller	Cycle - 3	ED Controller Set	ED Controller Set
D	0	ED Controller	Cycle - 3	ED Controller Bar	ED Controller Bar
E	0	ED Controller	Cycle - 3	ED Controller Bar	ED Controller Bar
F	0	ED Controller	Cycle - 3	ED Controller Bar	ED Controller Bar
G	0	ED Controller	Cycle - 3	ED Controller Bar	ED Controller Bar
H	0	ED Controller	Cycle - 3	ED Controller Bar	ED Controller Bar
B11	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B12	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B13	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B14	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B15	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B16	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B17	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B18	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B19	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
B20	0	Superheat Control	Cycle - 3	Superheat Control	Superheat Control
P5	1	Digital Input - Flow	Cycle - 3	Phase Control Status	Phase Control
P6	1	Digital Input - Flow	Cycle - 3	Phase Control Offset	Phase Control
P7	1	Digital Input - LP	Cycle - 3	Phase Control Error Kelvin Time	Phase Control
P8	1	Digital Input - LP	Cycle - 3	Phase Control Error Count	Phase Control
P9	1	Digital Input - OC	Cycle - 3	Phase Control Reset Delay	Phase Control
P10	1	Digital Input - OC	Cycle - 3	Phase Control Reset Delay Offset	Phase Control
P17	1	Digital Input - OC	Cycle - 3	Phase Control Error Kelvin Time	Phase Control
P18	1	Digital Input - OC	Cycle - 3	Phase Control Reset Delay	Phase Control
P19	1	Digital Input - OC	Cycle - 3	Phase Control Reset Delay Offset	Phase Control
P20	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P27	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P28	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P29	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P30	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P33	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
P34	1	Digital Input - OC	Cycle - 3	Reserved	Reserved
D1	0	Analog Input - Discharge	Cycle - 4	Discharge Pressure Trans Status	Dis Press E/D
J1	0	Analog Input - Discharge	Cycle - 4	Discharge Pressure Offset(Bar)	Dis Press Offset
J2	0	Analog Input - Suction	Cycle - 4	Suction Pressure Trans Status	Suct Press E/D
J3	0	Analog Input - Suction	Cycle - 4	Suction Pressure Offset(Bar)	Suct Press Offset
J4	0	Analog Input - Suction	Cycle - 4	Suction Temp Sensor Status	Suct Temp E/D
P5	0	Analog Input - Suction	Cycle - 4	Suction Temp Sensor Offset	Suct Temp Offset
C6	0	Analog Input - Temp	Cycle - 4	Discharge Temp Sensor Status	Dis Temp E/D
S7	0	Analog Input - Temp	Cycle - 4	Discharge Temp Sensor Offset	Dis Temp Offset
S8	0	Analog Input - Temp	Cycle - 4	Reserved Temp Sensor Status	Reserved
S9	0	Analog Input - Temp	Cycle - 4	Reserved Temp Sensor Offset	Reserved
S10	0	Analog Input - Temp	Cycle - 4	Reserved	Reserved
C11	0	Analog Input - Temp	Cycle - 4	Reserved	Reserved
D12	0	Analog Input - Temp	Cycle - 4	Reserved	Reserved
B13	0	Analog Output - fan	Cycle - 4	Actual Speed	Actual Speed
B14	0	Analog Output - fan	Cycle - 4	Actual Speed (Offset)	Actual Speed Offset
A15	0	Analog Output - fan	Cycle - 4	Actual Current	Actual Current
A16	0	Analog Output - fan	Cycle - 4	Actual Current (Offset)	Actual Current Offset
B17	0	Analog Output - fan	Cycle - 4	Actual Voltage	Actual Voltage
B18	0	Analog Output - fan	Cycle - 4	Actual Voltage (Offset)	Actual Voltage Offset
B19	0	Analog Output - fan	Cycle - 4	Actual Power	Actual Power
B20	0	Analog Output - fan	Cycle - 4	Actual Power (Offset)	Actual Power Offset
P1	1	Digital Input - Flow	Cycle - 4	Water Flow Switch Status	Water Flow Switch
P2	1	Digital Input - Flow	Cycle - 4	Water Flow Switch Offset	Water Flow Switch Offset
P3	1	Digital Input - LP	Cycle - 4	Low Pressure Switch Status	Low Pressure Switch
P4	1	Digital Input - LP	Cycle - 4	Low Pressure Switch Offset	Low Pressure Switch Offset
P11	1	Digital Input - OC	Cycle - 4	Compressor Overload Status	Compressor Overload
P12	1	Digital Input - OC	Cycle - 4	Compressor Overload Offset	Compressor Overload Offset
P13	1	Digital Input - OC	Cycle - 4	Fan Overload Status	Fan Overload
P14	1	Digital Input - OC	Cycle - 4	Fan Overload Offset	Fan Overload Offset
P15	1	Digital Input - OC	Cycle - 4	Reserved	Reserved
P16	1	Digital Input - OC	Cycle - 4	Reserved	Reserved
P21	1	Digital Input - LP	Cycle - 4	Low Pressure Switch Status	Low Pressure Switch
P22	1	Digital Input - LP	Cycle - 4	Low Pressure Switch Offset	Low Pressure Switch Offset
P23	1	Digital Input - OC	Cycle - 4	Compressor Overload Status	Compressor Overload
P24	1	Digital Input - OC	Cycle - 4	Compressor Overload Offset	Compressor Overload Offset
P25	1	Digital Input - OC	Cycle - 4	Fan Overload Status	Fan Overload
P26	1	Digital Input - OC	Cycle - 4	Fan Overload Offset	Fan Overload Offset
P31	1	Digital Input - OC	Cycle - 4	Reserved	Reserved
P32	1	Digital Input - OC	Cycle - 4	Reserved	Reserved
B-1	0	ED Controller	Cycle - 4	ED Controller Mode	ED Controller Mode
C	0	ED Controller	Cycle - 4	ED Controller Set	ED Controller Set
D	0	ED Controller	Cycle - 4	ED Controller Bar	ED Controller Bar
E	0	ED Controller	Cycle - 4	ED Controller Bar	ED Controller Bar
F	0	ED Controller	Cycle - 4	ED Controller Bar	ED Controller Bar
G	0	ED Controller	Cycle - 4	ED Controller Bar	ED Controller Bar
H	0	ED Controller	Cycle - 4	ED Controller Bar	ED Controller Bar
B11	0	Superheat Control	Cycle - 4	Superheat Control	Superheat Control
B12	0	Superheat Control	Cycle - 4	Superheat Control	Superheat Control
B13	0	Superheat Control	Cycle - 4	Superheat Control	Superheat Control
B14	0	Superheat Control	Cyc