

### Manual —

# MegaTron Controller Supplemental

## Modbus / TCP Communications Manual

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#### I. Modbus Introduction

The Advantage Controls MegaTron is capable of supporting TCP/IP communications via Ethernet and Data Modem. This allows for connections to our custom embedded web server via local networks and our browser based WebAdvantage service. Advantage Controls has now implemented Modbus/TCP support which allows interfacing with more customizable PC applications using HMI/SCADA and stand-alone HMI systems.

The MegaTron controller is capable of connecting to the WebAdvantage Server <u>and</u> most Building Management Systems. The WebAdvantage service requires a gateway to the internet with firewall and security rules in place. The Building Management System needs to be on the same subnet to properly receive traffic from the MegaTron. This may require some advanced routing of network traffic within the network wiring or programming of advanced switching equipment. The datatraffic for both is provided via the same Ethernet cable coming from the MegaTron.

#### II. Modbus Overview

Modbus is a messaging protocol developed by Modicon in 1979. It's used to establish a client-server communication between Modbus intelligent enabled devices. Modbus is a de facto standard open and widely used network protocol within industrial manufacturing environments. The protocol is used totransfer analog I/O and register data between Modbus enabled systems.

The Advantage Controls MegaTron utilizes Modbus/TCP protocol via an Ethernet handoff. Modbus is an application layer messaging protocol, located at level 7 of the OSI model providing client-server communications between devices positioned different types of buses or networks.

<sup>\*</sup> For more information about Modbus please visit www.modbus.org.

#### III. Modbus/TCP Data Dictionary - Rev. JA. 12.1

#### Data Types

#### **Controller Data**

Data Types
Bit - 1-Bit (16 Bits per Register)
Float - 32-Bit Floating Point
Long - 32-Bit Integer
Short - 16-Bit Integer
String - 8-Bits (2 per Register)

Controller Data	Addr.	Reg. Qty.	Size	Туре
Name	0001	16	32	String
Serial Number	0017	16	32	String
Firmware Version	0033	16	32	String
Date	0049	4	8	String
Time	0053	4	8	String
Day of Week	0057	1	1	Short

#### **Configuration Data**

Configuration Data	Addr.	Reg. Size	Qty.	Total	Туре
Conductivity - Set Pt #1 [1-4]	1001	1	4	4	Short
Conductivity - Set Pt #2 [1-4]	1005	1	4	4	Short
Conductivity - High Alarm Set Pt [1-4]	1009	1	4	4	Short
Conductivity - Low Alarm Set Pt [1-4]	1013	1	4	4	Short
Makeup Cond Set Pt #1 [1-4]	1017	1	4	4	Short
Makeup Cond High Alarm Set Pt [1-4]	1021	1	4	4	Short
Makeup Cond Low Alarm Set Pt [1-4]	1025	1	4	4	Short
pH - Set Pt #1 [1-4]	1029	2	4	8	Float
pH - Set Pt #2 [1-4]	1037	2	4	8	Float
pH - High Alarm Set Pt [1-4]	1045	2	4	8	Float
pH - Low Alarm Set Pt [1-4]	1053	2	4	8	Float
ORP - Set Pt #1 [1-4]	1061	2	4	8	Float
ORP - Set Pt #2 [1-4]	1069	2	4	8	Float
ORP - High Alarm Set Pt [1-4]	1077	2	4	8	Float
ORP - Low Alarm Set Pt [1-4]	1085	2	4	8	Float
System Temp Set Pt #1 [1-4]	1093	2	4	8	Float
System Temp High Alarm Set Pt [1-4]	1101	2	4	8	Float
System Temp Low Alarm Set Pt [1-4]	1109	2	4	8	Float
Auxiliary Temp Set Pt #1 [1-4]	1117	2	4	8	Float
Auxiliary Temp High Alarm Set Pt [1-4]	1125	2	4	8	Float
Auxiliary Temp Low Alarm Set Pt [1-4]	1133	2	4	8	Float
Delta Temp Set Pt #1 [1-4]	1141	2	4	8	Float
Delta Temp High Alarm Set Pt [1-4]	1149	2	4	8	Float
Delta Temp Low Alarm Set Pt [1-4]	1157	2	4	8	Float
Flow Switch - Configuration [1-4]	1165	1	4	4	Short
Temperature Scale	1169	1	1	1	Short

#### Alarm Data

Alarm Data	Address	Bit(s)	Туре
SYS1 COND	2001:1	1	Bit
SYS1 pH	2001:2	1	Bit
SYS1 ORP	2001:3	1	Bit
SYS1 TEMP 1	2001:4	1	Bit
SYS1 TEMP 2	2001:5	1	Bit
SYS1 DELTA TEMP	2001:6	1	Bit
SYS1 TIMER1	2001:7	1	Bit
SYS1 TIMER2	2001:8	1	Bit
SYS1 TIMER3	2001:9	1	Bit
SYS1 TIMER4	2001:10	1	Bit
SYS1 TIMER5	2001:11	1	Bit
SYS1 ALL ALARMS	2001:12	1	Bit
SYS1 HI COND	2001:13	1	Bit
SYS1 LO COND	2001:14	1	Bit
SYS1 COND LIMIT	2001:15	1	Bit
SYS1 HI pH	2001:16	1	Bit
SYS1 LO pH	2002:1	1	Bit
SYS1 ph LIMIT	2002:2	1	Bit
SYS1 HI ORP	2002:3	1	Bit
SYS1 LO ORP	2002:4	1	Bit
SYS1 ORP LIMIT	2002:5	1	Bit
SYS1 HI TEMP 1	2002:6	1	Bit
SYS1 LO TEMP 1	2002:7	1	Bit
SYS1 HI TEMP 2	2002:8	1	Bit
SYS1 LO TEMP 2	2002:9	1	Bit
SYS1 HI DELTA TEMP	2002:10	1	Bit
SYS1 LO DELTA TEMP	2002:11	1	Bit
SYS1 NO FLOW	2002:12	1	Bit
SYS1 DIGITAL INPUT 1	2002:13	1	Bit
SYS1 DIGITAL INPUT 2	2002:14	1	Bit
SYS1 DIGITAL INPUT 3	2002:15	1	Bit
SYS1 DIGITAL INPUT 4	2002:16	1	Bit
SYS1 DIGITAL INPUT 5	2003:1	1	Bit
SYS1 MCND	2003:2	1	Bit
SYS1 HI MCND	2003:3	1	Bit
SYS1 LO MCND	2003:4	1	Bit
SYS1 MCND LIMIT	2003:5	1	Bit
SYS1 NOTE 1 HI	2003:6	1	Bit

SYS1 NOTE 2 HI       2003         SYS1 NOTE 3 HI       2003         SYS1 NOTE 4 HI       2003         SYS1 NOTE 5 HI       2003         SYS1 NOTE 6 HI       2003         SYS1 NOTE 7 HI       2003         SYS1 NOTE 8 HI       2003         SYS1 NOTE 9 HI       2003         SYS1 NOTE 10 HI       2003         SYS1 NOTE 1 LO       2003         SYS1 NOTE 2 LO       2004	3:8 1 3:9 1 10 1 11 1 12 1 13 1 14 1	Bit Bit Bit Bit Bit Bit Bit
SYS1 NOTE 4 HI       2003         SYS1 NOTE 5 HI       2003         SYS1 NOTE 6 HI       2003         SYS1 NOTE 7 HI       2003         SYS1 NOTE 8 HI       2003         SYS1 NOTE 9 HI       2003         SYS1 NOTE 10 HI       2003         SYS1 NOTE 10 HI       2003         SYS1 NOTE 1 LO       2003	3:9 1 10 1 11 1 12 1 13 1 14 1	Bit Bit Bit Bit Bit
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SYS1 NOTE 8 HI       2003:         SYS1 NOTE 9 HI       2003:         SYS1 NOTE 10 HI       2003:         SYS1 NOTE 1 LO       2003:	13 1 14 1	Bit
SYS1 NOTE 9 HI       2003:         SYS1 NOTE 10 HI       2003:         SYS1 NOTE 1 LO       2003:	14 1	<b>.</b>
SYS1 NOTE 10 HI         2003:           SYS1 NOTE 1 LO         2003:		l D:
SYS1 NOTE 1 LO 2003:	15 1	Bit
		Bit
SVS1 NOTE 21 O	16 1	Bit
3131 NOTE 2 LO	1:1 1	Bit
SYS1 NOTE 3 LO 2004	1:2 1	Bit
SYS1 NOTE 4 LO 2004	1:3	Bit
SYS1 NOTE 5 LO 2004	1:4 1	Bit
SYS1 NOTE 6 LO 2004	1:5 1	Bit
SYS1 NOTE 7 LO 2004	1:6 1	Bit
SYS1 NOTE 8 LO 2004	1:7 1	Bit
SYS1 NOTE 9 LO 2004	1:8 1	Bit
SYS1 NOTE 10 LO 2004	1:9 1	Bit
SYS1 NOTE 1 TIME 2004:	10 1	Bit
SYS1 NOTE 2 TIME 2004:	:11 1	Bit
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SYS1 NOTE 4 TIME 2004:	13 1	Bit
SYS1 NOTE 5 TIME 2004:	14 1	Bit
SYS1 NOTE 6 TIME 2004:	15 1	Bit
SYS1 NOTE 7 TIME 2004:	16 1	Bit
SYS1 NOTE 8 TIME 2005	5:1 1	Bit
SYS1 NOTE 9 TIME 2005	5:2 1	Bit
SYS1 NOTE 10 TIME 2005	5:3 1	Bit
SYS1 pH2 2005	5:4 1	Bit
SYS2 COND 2008	3:1 1	Bit
SYS2 pH 2008	3:2 1	Bit
SYS2 ORP 2008	3:3 1	Bit
SYS2 TEMP 1 2008	3:4 1	Bit
SYS2 TEMP 2 2008	3:5 1	Bit
SYS2 DELTA TEMP 2008	3:6 1	Bit
SYS2 TIMER1 2008	3:7 1	Bit
SYS2 TIMER2 2008	3:8 1	Bit
SYS2 TIMER3 2008	3:9 1	Bit
SYS2 TIMER4 2008:	10 1	Bit
SYS2 TIMER5 2008:	:11 1	Bit

STS2 HI COND	SYS2 ALL ALARMS	2008:12	1	Bit
SYS2 LO COND         2008:14         1         Bit           SYS2 COND LIMIT         2008:15         1         Bit           SYS2 HI ph         2008:16         1         Bit           SYS2 LO ph         2009:1         1         Bit           SYS2 LO OPP         2009:3         1         Bit           SYS2 LO ORP         2009:4         1         Bit           SYS2 CORP LIMIT         2009:5         1         Bit           SYS2 CORP LIMIT         2009:5         1         Bit           SYS2 LO TEMP 1         2009:6         1         Bit           SYS2 LO TEMP 1         2009:7         1         Bit           SYS2 LO TEMP 2         2009:8         1         Bit           SYS2 LO TEMP 2         2009:8         1         Bit           SYS2 LO TEMP 2         2009:9         1         Bit           SYS2 LO TEMP 2         2009:9         1         Bit           SYS2 LO TEMP 2         2009:10         1         Bit           SYS2 LO TEMP 2         2009:11         1         Bit           SYS2 LO TEMP 2         2009:11         1         Bit           SYS2 LO TEMP 2         2009:11         1 <td< td=""><td></td><td></td><td></td><td>ļ</td></td<>				ļ
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SYS3 TIMER5	2015:11	1	Bit
SYS3 ALL ALARMS	2015:12	1	Bit
SYS3 HI COND	2015:13	1	Bit
SYS3 LO COND	2015:14	1	Bit
SYS3 COND LIMIT	2015:15	1	Bit
SYS3 HI ph	2015:16	1	Bit
SYS3 LO ph	2016:1	1	Bit
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SYS3 HI ORP	2016:3	1	Bit
SYS3 LO ORP	2016:4	1	Bit
SYS3 ORP LIMIT	2016:5	1	Bit
SYS3 HI TEMP 1	2016:6	1	Bit
SYS3 LO TEMP 1	2016:7	1	Bit
SYS3 HI TEMP 2	2016:8	1	Bit
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SYS3 pH2         2019.4         1         Bit           SYS4 COND         2022.1         1         Bit           SYS4 pH         2022.2         1         Bit           SYS4 ORP         2022.3         1         Bit           SYS4 TEMP 1         2022.4         1         Bit           SYS4 TEMP 2         2022.5         1         Bit           SYS4 TIMER 1         2022.6         1         Bit           SYS4 TIMER1         2022.7         1         Bit           SYS4 TIMER2         2022.8         1         Bit           SYS4 TIMER3         2022.9         1         Bit           SYS4 TIMER4         2022.10         1         Bit           SYS4 TIMER5         2022.11         1         Bit           SYS4 TIMER6         2022.11         1         Bit           SYS4 LO COND         2022.13         1         Bit           SYS4 COND LIMIT         2022.13         1         Bit           SYS4 LO COND         2022.14         1         Bit           SYS4 HIPh         2022.15         1         Bit           SYS4 LO COND         2022.13         1         Bit           SYS4		1 1		T
SYS4 COND         2022:1         1         Bit           SYS4 pH         2022:2         1         Bit           SYS4 ORP         2022:3         1         Bit           SYS4 TEMP 1         2022:4         1         Bit           SYS4 TEMP 2         2022:5         1         Bit           SYS4 TEMP 2         2022:6         1         Bit           SYS4 TIMER         2022:7         1         Bit           SYS4 TIMER1         2022:8         1         Bit           SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER3         2022:10         1         Bit           SYS4 TIMER6         2022:11         1         Bit           SYS4 TIMER5         2022:12         1         Bit           SYS4 HI COND         2022:13         1         Bit           SYS4 HI COND         2022:14         1         Bit           SYS4 LO COND         2022:14         1         Bit           SYS4 LO COND         2022:15         1         Bit           SYS4 LO COND         2022:16         1         Bit           SYS4 LO COND         2022:13         1         Bit           SY	SYS3 NOTE 10 TIME	2019:3	1	Bit
SYS4 pH         2022:2         1         Bit           SYS4 ORP         2022:3         1         Bit           SYS4 TEMP 1         2022:4         1         Bit           SYS4 TEMP 2         2022:5         1         Bit           SYS4 DELTA TEMP         2022:6         1         Bit           SYS4 TIMER1         2022:7         1         Bit           SYS4 TIMER2         2022:8         1         Bit           SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER4         2022:10         1         Bit           SYS4 TIMER5         2022:11         1         Bit           SYS4 ALL ALARMS         2022:12         1         Bit           SYS4 HI COND         2022:13         1         Bit           SYS4 LO COND         2022:13         1         Bit           SYS4 COND LIMIT         2022:15         1         Bit           SYS4 HI Jph         2022:16         1         Bit           SYS4 LO Ph         2023:1         1         Bit           SYS4 LO TORP         2023:1         1         Bit           SYS4 LO ORP         2023:3         1         Bit				
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SYS4 DELTA TEMP         2022:6         1         Bit           SYS4 TIMER1         2022:7         1         Bit           SYS4 TIMER2         2022:8         1         Bit           SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER4         2022:10         1         Bit           SYS4 TIMER5         2022:11         1         Bit           SYS4 ALL ALARMS         2022:12         1         Bit           SYS4 HI COND         2022:13         1         Bit           SYS4 LO COND         2022:14         1         Bit           SYS4 COND LIMIT         2022:15         1         Bit           SYS4 HI Ph         2023:1         1         Bit           SYS4 HI ORP         2023:1         1         Bit           SYS4 HI ORP         2023:1         1         Bit           SYS4 HI TEMP 1         2023:3         1         Bit           SYS4 HI TEMP 1         2023:4         1         Bit           SYS4 LO TEMP 1         2023:5         1         Bit           SYS4 LO TEMP 2         2023:8         1         Bit           SYS4 LO TEMP 2         2023:8         1         Bit			•	
SYS4 TIMER1         2022:7         1         Bit           SYS4 TIMER2         2022:8         1         Bit           SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER4         2022:10         1         Bit           SYS4 TIMER5         2022:11         1         Bit           SYS4 HI COND         2022:12         1         Bit           SYS4 HI COND         2022:13         1         Bit           SYS4 LO COND         2022:14         1         Bit           SYS4 LO COND         2022:15         1         Bit           SYS4 LO COND LIMIT         2022:16         1         Bit           SYS4 LO Ph         2023:1         1         Bit           SYS4 LO ph         2023:1         1         Bit           SYS4 LO Ph         2023:1         1         Bit           SYS4 HI ORP         2023:3         1         Bit           SYS4 LO ORP         2023:3         1         Bit           SYS4 LO TEMP 1         2023:5         1         Bit           SYS4 LO TEMP 1         2023:6         1         Bit           SYS4 LO TEMP 2         2023:8         1         Bit				
SYS4 TIMER2         2022:8         1         Bit           SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER4         2022:10         1         Bit           SYS4 TIMER5         2022:11         1         Bit           SYS4 ALL ALARMS         2022:12         1         Bit           SYS4 HI COND         2022:13         1         Bit           SYS4 LO COND         2022:14         1         Bit           SYS4 COND LIMIT         2022:15         1         Bit           SYS4 HI ph         2022:16         1         Bit           SYS4 LO ph         2023:1         1         Bit           SYS4 Ph LIMIT         2023:2         1         Bit           SYS4 HI ORP         2023:3         1         Bit           SYS4 LO ORP         2023:3         1         Bit           SYS4 HI TEMP 1         2023:5         1         Bit           SYS4 LO TEMP 1         2023:6         1         Bit           SYS4 LO TEMP 2         2023:8         1         Bit           SYS4 LO TEMP 2         2023:9         1         Bit           SYS4 LO TEMP 2         2023:1         1         Bit </td <td>SYS4 DELTA TEMP</td> <td>2022:6</td> <td>1</td> <td>Bit</td>	SYS4 DELTA TEMP	2022:6	1	Bit
SYS4 TIMER3         2022:9         1         Bit           SYS4 TIMER4         2022:10         1         Bit           SYS4 TIMER5         2022:11         1         Bit           SYS4 ALL ALARMS         2022:12         1         Bit           SYS4 LO COND         2022:13         1         Bit           SYS4 LO COND         2022:14         1         Bit           SYS4 COND LIMIT         2022:15         1         Bit           SYS4 HI ph         2022:16         1         Bit           SYS4 LO ph         2023:1         1         Bit           SYS4 HI DRP         2023:2         1         Bit           SYS4 HI ORP         2023:3         1         Bit           SYS4 LO ORP         2023:3         1         Bit           SYS4 HI TEMP 1         2023:5         1         Bit           SYS4 LO TEMP 1         2023:6         1         Bit           SYS4 LO TEMP 2         2023:8         1         Bit           SYS4 HI DELTA TEMP         2023:10         1         Bit           SYS4 LO TEMP 2         2023:11         1         Bit           SYS4 LO TEMP 2         2023:12         1         Bit <td>SYS4 TIMER1</td> <td>2022:7</td> <td>1</td> <td>Bit</td>	SYS4 TIMER1	2022:7	1	Bit
SYS4 TIMER4       2022:10       1 Bit         SYS4 TIMER5       2022:11       1 Bit         SYS4 ALL ALARMS       2022:12       1 Bit         SYS4 HI COND       2022:13       1 Bit         SYS4 LO COND       2022:14       1 Bit         SYS4 COND LIMIT       2022:15       1 Bit         SYS4 HI ph       2022:16       1 Bit         SYS4 LO ORD       2023:1       1 Bit         SYS4 HI ORP       2023:1       1 Bit         SYS4 HI ORP       2023:3       1 Bit         SYS4 ORP LIMIT       2023:3       1 Bit         SYS4 ORP LIMIT       2023:5       1 Bit         SYS4 HI TEMP 1       2023:6       1 Bit         SYS4 LO TEMP 1       2023:7       1 Bit         SYS4 LO TEMP 2       2023:8       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:10       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit	SYS4 TIMER2	2022:8	1	Bit
SYS4 TIMER5       2022:11       1 Bit         SYS4 ALL ALARMS       2022:12       1 Bit         SYS4 HI COND       2022:13       1 Bit         SYS4 LO COND       2022:14       1 Bit         SYS4 COND LIMIT       2022:15       1 Bit         SYS4 HI ph       2022:16       1 Bit         SYS4 LO ph       2023:1       1 Bit         SYS4 Ph LIMIT       2023:2       1 Bit         SYS4 HI ORP       2023:3       1 Bit         SYS4 LO ORP       2023:4       1 Bit         SYS4 ORP LIMIT       2023:5       1 Bit         SYS4 HI TEMP 1       2023:6       1 Bit         SYS4 HI TEMP 2       2023:6       1 Bit         SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit	SYS4 TIMER3	2022:9	1	Bit
SYS4 ALL ALARMS       2022:12       1       Bit         SYS4 HI COND       2022:13       1       Bit         SYS4 LO COND       2022:14       1       Bit         SYS4 COND LIMIT       2022:15       1       Bit         SYS4 HI ph       2022:16       1       Bit         SYS4 LO ph       2023:1       1       Bit         SYS4 Ph LIMIT       2023:2       1       Bit         SYS4 HORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 HI TEMP 1       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 DIGITAL INPUT 1       2023:12       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit	SYS4 TIMER4	2022:10	1	Bit
SYS4 HI COND       2022:13       1       Bit         SYS4 LO COND       2022:14       1       Bit         SYS4 COND LIMIT       2022:15       1       Bit         SYS4 HI ph       2022:16       1       Bit         SYS4 LO ph       2023:1       1       Bit         SYS4 ph LIMIT       2023:2       1       Bit         SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit<	SYS4 TIMER5	2022:11	1	Bit
SYS4 LO COND       2022:14       1       Bit         SYS4 COND LIMIT       2022:15       1       Bit         SYS4 HI ph       2022:16       1       Bit         SYS4 LO ph       2023:1       1       Bit         SYS4 ph LIMIT       2023:2       1       Bit         SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:9       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit	SYS4 ALL ALARMS	2022:12	1	Bit
SYS4 COND LIMIT       2022:15       1       Bit         SYS4 HI ph       2022:16       1       Bit         SYS4 LO ph       2023:1       1       Bit         SYS4 ph LIMIT       2023:2       1       Bit         SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:10       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MOND       2024:2       1       B	SYS4 HI COND	2022:13	1	Bit
SYS4 HI ph       2022:16       1       Bit         SYS4 LO ph       2023:1       1       Bit         SYS4 ph LIMIT       2023:2       1       Bit         SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1	SYS4 LO COND	2022:14	1	Bit
SYS4 LO ph       2023:1       1       Bit         SYS4 ph LIMIT       2023:2       1       Bit         SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:9       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:2       1       Bi	SYS4 COND LIMIT	2022:15	1	Bit
SYS4 ph LIMIT       2023:2       1 Bit         SYS4 HI ORP       2023:3       1 Bit         SYS4 LO ORP       2023:4       1 Bit         SYS4 ORP LIMIT       2023:5       1 Bit         SYS4 HI TEMP 1       2023:6       1 Bit         SYS4 LO TEMP 1       2023:7       1 Bit         SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 LO TEMP 2       2023:8       1 Bit         SYS4 HI DELTA TEMP       2023:9       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6 <td< td=""><td>SYS4 HI ph</td><td>2022:16</td><td>1</td><td>Bit</td></td<>	SYS4 HI ph	2022:16	1	Bit
SYS4 HI ORP       2023:3       1       Bit         SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:9       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit         SYS4 MCND       2024:1       1       Bit         SYS4 HI MCND       2024:2       1       Bit         SYS4 HI MCND       2024:3       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       <	SYS4 LO ph	2023:1	1	Bit
SYS4 LO ORP       2023:4       1       Bit         SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 LO TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:9       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:2       1       Bit         SYS4 LO MCND       2024:3       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1 <td>SYS4 ph LIMIT</td> <td>2023:2</td> <td>1</td> <td>Bit</td>	SYS4 ph LIMIT	2023:2	1	Bit
SYS4 ORP LIMIT       2023:5       1       Bit         SYS4 HI TEMP 1       2023:6       1       Bit         SYS4 LO TEMP 1       2023:7       1       Bit         SYS4 HI TEMP 2       2023:8       1       Bit         SYS4 LO TEMP 2       2023:9       1       Bit         SYS4 HI DELTA TEMP       2023:10       1       Bit         SYS4 LO DELTA TEMP       2023:11       1       Bit         SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:2       1       Bit         SYS4 HI MCND       2024:3       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 HI ORP	2023:3	1	Bit
SYS4 HI TEMP 1       2023:6       1 Bit         SYS4 LO TEMP 1       2023:7       1 Bit         SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 LO TEMP 2       2023:9       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 HOND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 LO ORP	2023:4	1	Bit
SYS4 LO TEMP 1       2023:7       1 Bit         SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 LO TEMP 2       2023:9       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:2       1 Bit         SYS4 LO MCND       2024:3       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 ORP LIMIT	2023:5	1	Bit
SYS4 HI TEMP 2       2023:8       1 Bit         SYS4 LO TEMP 2       2023:9       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 HI TEMP 1	2023:6	1	Bit
SYS4 LO TEMP 2       2023:9       1 Bit         SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 LO TEMP 1	2023:7	1	Bit
SYS4 HI DELTA TEMP       2023:10       1 Bit         SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 HI TEMP 2	2023:8	1	Bit
SYS4 LO DELTA TEMP       2023:11       1 Bit         SYS4 NO FLOW       2023:12       1 Bit         SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 LO TEMP 2	2023:9	1	Bit
SYS4 NO FLOW       2023:12       1       Bit         SYS4 DIGITAL INPUT 1       2023:13       1       Bit         SYS4 DIGITAL INPUT 2       2023:14       1       Bit         SYS4 DIGITAL INPUT 3       2023:15       1       Bit         SYS4 DIGITAL INPUT 4       2023:16       1       Bit         SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:3       1       Bit         SYS4 LO MCND       2024:4       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 HI DELTA TEMP	2023:10	1	Bit
SYS4 DIGITAL INPUT 1       2023:13       1 Bit         SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 LO DELTA TEMP	2023:11	1	Bit
SYS4 DIGITAL INPUT 2       2023:14       1 Bit         SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 NO FLOW	2023:12	1	Bit
SYS4 DIGITAL INPUT 3       2023:15       1 Bit         SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 DIGITAL INPUT 1	2023:13	1	Bit
SYS4 DIGITAL INPUT 4       2023:16       1 Bit         SYS4 DIGITAL INPUT 5       2024:1       1 Bit         SYS4 MCND       2024:2       1 Bit         SYS4 HI MCND       2024:3       1 Bit         SYS4 LO MCND       2024:4       1 Bit         SYS4 MCND LIMIT       2024:5       1 Bit         SYS4 NOTE 1 HI       2024:6       1 Bit	SYS4 DIGITAL INPUT 2	2023:14	1	Bit
SYS4 DIGITAL INPUT 5       2024:1       1       Bit         SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:3       1       Bit         SYS4 LO MCND       2024:4       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 DIGITAL INPUT 3	2023:15	1	Bit
SYS4 MCND       2024:2       1       Bit         SYS4 HI MCND       2024:3       1       Bit         SYS4 LO MCND       2024:4       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 DIGITAL INPUT 4	2023:16	1	Bit
SYS4 HI MCND       2024:3       1       Bit         SYS4 LO MCND       2024:4       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 DIGITAL INPUT 5	2024:1	1	Bit
SYS4 LO MCND       2024:4       1       Bit         SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 MCND	2024:2	1	Bit
SYS4 MCND LIMIT       2024:5       1       Bit         SYS4 NOTE 1 HI       2024:6       1       Bit	SYS4 HI MCND	2024:3	1	Bit
SYS4 NOTE 1 HI 2024:6 1 Bit	SYS4 LO MCND	2024:4	1	Bit
	SYS4 MCND LIMIT	2024:5	1	Bit
SYS4 NOTE 2 HI 2024:7 1 Bit	SYS4 NOTE 1 HI	2024:6	1	Bit
,	SYS4 NOTE 2 HI	2024:7	1	Bit

SYS4 NOTE 3 HI	2024:8	1	D:4
		ļ.	Bit
SYS4 NOTE 4 HI	2024:9	1	Bit
SYS4 NOTE 5 HI	2024:10	1	Bit
SYS4 NOTE 6 HI	2024:11	1	Bit
SYS4 NOTE 7 HI	2024:12	1	Bit
SYS4 NOTE 8 HI	2024:13	1	Bit
SYS4 NOTE 9 HI	2024:14	1	Bit
SYS4 NOTE 10 HI	2024:15	1	Bit
SYS4 NOTE 1 LO	2024:16	1	Bit
SYS4 NOTE 2 LO	2025:1	1	Bit
SYS4 NOTE 3 LO	2025:2	1	Bit
SYS4 NOTE 4 LO	2025:3	1	Bit
SYS4 NOTE 5 LO	2025:4	1	Bit
SYS4 NOTE 6 LO	2025:5	1	Bit
SYS4 NOTE 7 LO	2025:6	1	Bit
SYS4 NOTE 8 LO	2025:7	1	Bit
SYS4 NOTE 9 LO	2025:8	1	Bit
SYS4 NOTE 10 LO	2025:9	1	Bit
SYS4 NOTE 1 TIME	2025:10	1	Bit
SYS4 NOTE 2 TIME	2025:11	1	Bit
SYS4 NOTE 3 TIME	2025:12	1	Bit
SYS4 NOTE 4 TIME	2025:13	1	Bit
SYS4 NOTE 5 TIME	2025:14	1	Bit
SYS4 NOTE 6 TIME	2025:15	1	Bit
SYS4 NOTE 7 TIME	2025:16	1	Bit
SYS4 NOTE 8 TIME	2026:1	1	Bit
SYS4 NOTE 9 TIME	2026:2	1	Bit
SYS4 NOTE 10 TIME	2026:3	1	Bit
SYS4 pH2	2026:4	1	Bit
MA IN1	2029:1	1	Bit
MA IN1 HIGH	2029:2	1	Bit
MA IN1 LOW	2029:3	1	Bit
MA IN2	2029:4	1	Bit
MA IN2 HIGH	2029:5	1	Bit
MA IN2 LOW	2029:6	1	Bit
MA IN3	2029:7	1	Bit
MA IN3 HIGH	2029:8	1	Bit
MA IN3 LOW	2029:9	1	Bit
MA IN4	2029:10	1	Bit
MA IN4 HIGH	2029:11	1	Bit
MA IN4 LOW	2029:12	1	Bit

MA IN5	2029:13	1	Bit
MA IN5 HIGH	2029:14	1	Bit
MA IN5 LOW	2029:15	1	Bit
MA IN6	2029:16	1	Bit
MA IN6 HIGH	2030:1	1	Bit
MA IN6 LOW	2030:2	1	Bit
MA IN7	2030:3	1	Bit
MA IN7 HIGH	2030:4	1	Bit
MA IN7 LOW	2030:5	1	Bit
MA IN8	2030:6	1	Bit
MA IN8 HIGH	2030:7	1	Bit
MA IN8 LOW	2030:8	1	Bit

#### **Sensor Data**

Sensor Data	Addr.	Reg. Size	Qty.	Total	Туре
Conductivity [1-4]	3001	1	4	4	Short
Makeup Cond. [1-4]	3005	1	4	4	Short
pH [1-4]	3009	2	4	8	Float
ORP [1-4]	3017	2	4	8	Float
System Temp. [1-4]	3025	2	4	8	Float
Auxiliary Temp. [1-4]	3033	2	4	8	Float
Flow [1-4]	3041	1	4	4	Short
Water Meter #1 - Total Value [1-4]	3045	2	4	8	Long
Water Meter #2 - Total Value [1-4]	3053	2	4	8	Long
Makeup Cycles [1-4]	3061	2	4	8	Float

#### **Relay Data**

Relay Data	Addr.	Reg. Size	Qty.	Total	Туре
Relay [1-20] ( See Note #1)	4001	1	20	20	Short

Note #1 0=H-OFF 1=H-ON 2=OFF 3=ON

#### mA Output Data

mA Output Data	Addr.	Reg. Size	Qty.	Total	Туре
Value [1-6]	4201	2	6	12	Float

#### 4-20mA / 0-5V Input Data

4-20mA / 0-5V Input Data	Addr.	Reg. Size	Qty.	Total	Туре
Value [1-6]	4251	2	8	16	Float

#### Flow Meter Data

Flow Meter Data	Addr.	Reg. Size	Qty.	Total	Туре
Total [1-10]	4301	2	10	20	Float
Flow Rate [1-10]	4321	2	10	20	Float

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