

Manual —

MegaTron Controller Supplemental

BACnet Communications Manual

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12/2013



BACnet Communications Manual Table of Contents

| Conte | ents | Page |
|-------|--|------|
| I. | BACnet Introduction | 3 |
| II. | BACnet Overview | 3 |
| III. | Protocol Implementation Summary (Annex-A) | 3 |
| IV. | MegaTron Setup | 4 |
| V. | Object Definitions | 4 |
| | Object / Property Support Matrix | 4 |
| | Binary Input Object Instance Summary | 5 |
| | Binary Value Object Instance Summary | 5 |
| | Analog Input Object Instance Summary | 13 |
| | Analog Value Object Instance Summary | 14 |
| | Multi-State Value Object Instance Summary. | 17 |

I. BACnet Introduction

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.

The BACnet protocol allows interfacing with more customizable PC applications using HMI/SCADA and stand-alone HMI systems

II. BACnet Overview

BACnet is an American National Standard. The BACnet protocol allows the creation of an automation and controls system which may interoperate with other BACnet systems. In BACnet terms, interoperate means that two or more BACnet-speaking computer systems may share the same communications networks, and ask each other to perform various functions on a peer-to-peer basis.

BACnet's flexibility has two important benefits: vendor-independence and forward-compatibility with future generations of systems. This is accomplished using an object-oriented approach for representing all information within each controller. Since BACnet is based on standards, it provides maximum benefits for both the vendor who designs BACnet systems, and the specifier or owner of those systems.

III. Protocal Implementation Conformance Summary (Annex-A)

Applications Software Version: JA.12.1 and higher

Firmware Revision: JA.12.1 and higher

BACnet Protocol Revision: 5

BACnet Standardized Device Profile (Annex L): BACnet Application Specific Controller (B-ASC)

BACnet Interoperability Building Blocks Supported (Annex K):

DS-RP-B

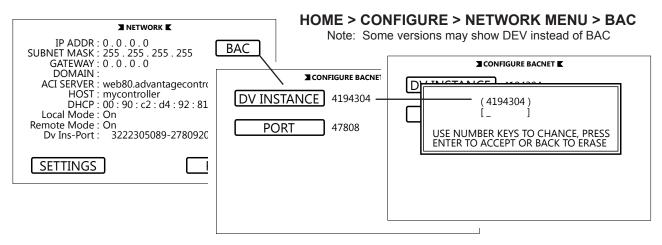
- DM-DDB-B
- DM-DCC-B
- DM-RD-B

Standard Object Types Supported: See table 3-1 "Object/Property Support Matrix".

Data Link Layer Options: BACnet IP, (Annex J)

Character Set Supported: ANSI X3.4

IV. MegaTron Setup



The MegaTron will be a "device object" on the particular BACnet network. Each device object (your MegaTron) must have an object identifier that is unique network wide. The device object instance number is normally configured on site after the device is installed. The device object instance number range is between 0 and 4194303. Note that 4194303 is known as "unconfigured" and is not really a valid device instance number. All devices are required to respond with their own Device object instance number when 4194303 is requested.

To enter your device object identifier, go to the Configure menu in the MegaTron and select the Network settings. Then select BAC.

V. Object Definitions

Object / Property Support Matrix (Table 1-1)

| | | | Objed | ct Type | | | | | |
|------------------------|----------|-----------------|-----------------|-----------------|-----------------|----------------------|--|--|--|
| Property | Device | Binary Input | Binary Value | Analog Input | Analog Value | Multi-State Value | | | |
| Object Identifier | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Object Name | √ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Object Type | √ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Description | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| System Status | ✓ | | | | | | | | |
| Vendor Name | ✓ | | | | | | | | |
| Vendor Identifier | ✓ | | | | | | | | |
| Model Name | √ | | | | | | | | |
| Firmware Revision | √ | | | | | | | | |
| App. Software Revision | √ | | | | | | | | |
| Protocol Version | ✓ | | | | | | | | |
| Protocol Revision | ✓ | | | | | | | | |

| Services Supported | ✓ | | | | | |
|------------------------|---|---|---|---|---|----------|
| Object Types Supported | ✓ | | | | | |
| Object List | ✓ | | | | | |
| Max APDU Length | ✓ | | | | | |
| Segmentation Support | ✓ | | | | | |
| APDU Timeout | ✓ | | | | | |
| Number APDU Retries | ✓ | | | | | |
| Database Revision | ✓ | | | | | |
| Present Value | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Status Flags | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Event State | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Out-of-Service | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Units | | | | ✓ | ✓ | |
| Polarity | | ✓ | ✓ | | | |
| Number of States | | | | | | ✓ |
| State Text | | | | | | ✓ |

Binary Input Object Instance Summary (Table 1-2)

| Instance ID | Object Name | Purpose | Present Value – Access |
|-------------|-------------|-------------------------|------------------------|
| 0 | BI-000 | System #1 – Flow Switch | Read Only |
| 1 | BI-001 | System #2 – Flow Switch | Read Only |
| 2 | BI-002 | System #3 – Flow Switch | Read Only |
| 3 | BI-003 | System #4 – Flow Switch | Read Only |

Binary Value Object Instance Summary (Table 1-3)

| Instance ID | Object Name | Purpose | Present Value – Access |
|-------------|-------------|--------------------------------|------------------------|
| 0 | BV-000 | System #1 – Conductivity Alarm | Read Only |
| 1 | BV-001 | System #1 – pH Alarm | Read Only |
| 2 | BV-002 | System #1 – ORP Alarm | Read Only |
| 3 | BV-003 | System #1 – S. Temp Alarm | Read Only |
| 4 | BV-004 | System #1 – M. Temp Alarm | Read Only |
| 5 | BV-005 | System #1 – D. Temp Alarm | Read Only |
| 6 | BV-006 | System #1 – Timer 1 Alarm | Read Only |
| 7 | BV-007 | System #1 – Timer 2 Alarm | Read Only |
| 8 | BV-008 | System #1 – Timer 3 Alarm | Read Only |
| 9 | BV-009 | System #1 – Timer 4 Alarm | Read Only |
| 10 | BV-010 | System #1 – Timer 5 Alarm | Read Only |

| 11 BV-011 System #1 – All Alarms Read 0 12 BV-012 System #1 – Conductivity High Alarm Read 0 13 BV-013 System #1 – Conductivity Low Alarm Read 0 14 BV-014 System #1 – Conductivity Limit Alarm Read 0 15 BV-015 System #1 – DH High Alarm Read 0 16 BV-016 System #1 – DH Low Alarm Read 0 17 BV-017 System #1 – DH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – D. Temp High Alarm Read 0 24 BV-024 System #1 – D. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp Low Alarm Read 0 26 B | Only Only Only Only Only Only Only Only |
|--|---|
| 13 BV-013 System #1 – Conductivity Low Alarm Read 0 14 BV-014 System #1 – Conductivity Limit Alarm Read 0 15 BV-015 System #1 – pH High Alarm Read 0 16 BV-016 System #1 – pH Limit Alarm Read 0 17 BV-017 System #1 – pH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 21 BV-022 System #1 – S. Temp Low Alarm Read 0 22 BV-022 System #1 – M. Temp Low Alarm Read 0 23 BV-023 System #1 – D. Temp High Alarm Read 0 24 BV-024 System #1 – D. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp Low Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 <t< td=""><td>Only Only Only Only Only Only Only Only</td></t<> | Only Only Only Only Only Only Only Only |
| 14 BV-014 System #1 – Conductivity Limit Alarm Read 0 15 BV-015 System #1 – pH High Alarm Read 0 16 BV-016 System #1 – pH Low Alarm Read 0 17 BV-017 System #1 – pH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-019 System #1 – ORP Limit Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-021 System #1 – S. Temp Low Alarm Read 0 23 BV-022 System #1 – M. Temp High Alarm Read 0 24 BV-023 System #1 – D. Temp Low Alarm Read 0 25 BV-024 System #1 – D. Temp Low Alarm Read 0 26 BV-025 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – Digital Input 1 Alarm Read 0 28 BV- | Only Only Only Only Only Only Only Only |
| 15 BV-015 System #1 – pH High Alarm Read 0 16 BV-016 System #1 – pH Low Alarm Read 0 17 BV-017 System #1 – pH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-021 System #1 – S. Temp Low Alarm Read 0 23 BV-022 System #1 – M. Temp Low Alarm Read 0 24 BV-023 System #1 – D. Temp Low Alarm Read 0 25 BV-024 System #1 – D. Temp Low Alarm Read 0 26 BV-025 System #1 – D. Temp Low Alarm Read 0 27 BV-026 System #1 – D. Temp Low Alarm Read 0 28 BV-027 System #1 – Digital Input 1 Alarm Read 0 30 BV-030 System #1 – Digital Input 2 Alarm Read 0 31 BV-03 | Only Only Only Only Only Only Only Only |
| 16 BV-016 System #1 – pH Low Alarm Read 0 17 BV-017 System #1 – pH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-021 System #1 – S. Temp Low Alarm Read 0 23 BV-022 System #1 – M. Temp High Alarm Read 0 24 BV-023 System #1 – M. Temp Low Alarm Read 0 25 BV-024 System #1 – D. Temp Low Alarm Read 0 26 BV-025 System #1 – D. Temp Low Alarm Read 0 27 BV-026 System #1 – D. Temp Low Alarm Read 0 28 BV-027 System #1 – Digital Input 1 Alarm Read 0 29 BV-028 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 | Only Only Only Only Only Only Only |
| 17 BV-017 System #1 – pH Limit Alarm Read 0 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-021 System #1 – S. Temp Low Alarm Read 0 23 BV-022 System #1 – M. Temp Low Alarm Read 0 24 BV-023 System #1 – M. Temp Low Alarm Read 0 25 BV-024 System #1 – D. Temp High Alarm Read 0 26 BV-025 System #1 – D. Temp Low Alarm Read 0 27 BV-026 System #1 – D. Temp Low Alarm Read 0 28 BV-027 System #1 – D. Temp Low Alarm Read 0 29 BV-028 System #1 – Digital Input 1 Alarm Read 0 30 BV-030 System #1 – Digital Input 2 Alarm Read 0 31 BV-031 System #1 – Digital Input 5 Alarm Read 0 32 | Only Only Only Only |
| 18 BV-018 System #1 – ORP High Alarm Read 0 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-025 System #1 – D. Temp Low Alarm Read 0 27 BV-026 System #1 – No Flow Alarm Read 0 28 BV-027 System #1 – Digital Input 1 Alarm Read 0 29 BV-028 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – M. Conductivity Alarm Read 0 34< | Only Only Only |
| 19 BV-019 System #1 – ORP Low Alarm Read 0 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 5 Alarm Read 0 32 BV-032 System #1 – M. Conductivity Alarm Read 0 33 BV-033 System #1 – M. Conductivity High Alarm Read 0 | Only Only |
| 20 BV-020 System #1 – ORP Limit Alarm Read 0 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-035 System #1 – M. Conductivity Low Alarm Read 0 <td>Only</td> | Only |
| 21 BV-021 System #1 – S. Temp High Alarm Read 0 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity Low Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 < | |
| 22 BV-022 System #1 – S. Temp Low Alarm Read 0 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-027 System #1 – Digital Input 1 Alarm Read 0 29 BV-028 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Santa a |
| 23 BV-023 System #1 – M. Temp High Alarm Read 0 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | חוע |
| 24 BV-024 System #1 – M. Temp Low Alarm Read 0 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 25 BV-025 System #1 – D. Temp High Alarm Read 0 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 26 BV-026 System #1 – D. Temp Low Alarm Read 0 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 27 BV-027 System #1 – No Flow Alarm Read 0 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 28 BV-028 System #1 – Digital Input 1 Alarm Read 0 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 29 BV-029 System #1 – Digital Input 2 Alarm Read 0 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 30 BV-030 System #1 – Digital Input 3 Alarm Read 0 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 31 BV-031 System #1 – Digital Input 4 Alarm Read 0 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 32 BV-032 System #1 – Digital Input 5 Alarm Read 0 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 33 BV-033 System #1 – M. Conductivity Alarm Read 0 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 34 BV-034 System #1 – M. Conductivity High Alarm Read 0 35 BV-035 System #1 – M. Conductivity Low Alarm Read 0 | Only |
| 35 BV-035 System #1 – M. Conductivity Low Alarm Read (| Only |
| | Only |
| 26 DV 026 System #4 M Conductivity I insit Alarma | Only |
| 36 BV-036 System #1 – M. Conductivity Limit Alarm Read (| Only |
| 37 BV-037 System #1 – Notepad 1 High Alarm Read 0 | Only |
| 38 BV-038 System #1 – Notepad 2 High Alarm Read 0 | Only |
| 39 BV-039 System #1 – Notepad 3 High Alarm Read 0 | Only |
| 40 BV-040 System #1 – Notepad 4 High Alarm Read 0 | Only |
| 41 BV-041 System #1 – Notepad 5 High Alarm Read 0 | Only |
| 42 BV-042 System #1 – Notepad 6 High Alarm Read 0 | Only |
| 43 BV-043 System #1 – Notepad 7 High Alarm Read 0 | |
| 44 BV-044 System #1 – Notepad 8 High Alarm Read 0 |)nly |
| 45 BV-045 System #1 – Notepad 9 High Alarm Read 0 | |
| 46 BV-046 System #1 – Notepad 10 High Alarm Read 0 | Only |
| 47 BV-047 System #1 – Notepad 1 Low Alarm Read 0 | Only Only |
| 48 BV-048 System #1 – Notepad 2 Low Alarm Read 0 | Only Only Only |
| 49 BV-049 System #1 – Notepad 3 Low Alarm Read 0 | Only Only Only Only |
| 50 BV-050 System #1 – Notepad 4 Low Alarm Read 0 | Only Only Only Only Only Only Only |
| 51 BV-051 System #1 – Notepad 5 Low Alarm Read 0 | Only Only Only Only Only Only Only Only |

| 52 | BV-052 | System #1 – Notepad 6 Low Alarm | Read Only |
|----|--------|--------------------------------------|-----------|
| 53 | BV-053 | System #1 – Notepad 7 Low Alarm | Read Only |
| 54 | BV-054 | System #1 – Notepad 8 Low Alarm | Read Only |
| 55 | BV-055 | System #1 – Notepad 9 Low Alarm | Read Only |
| 56 | BV-056 | System #1 – Notepad 10 Low Alarm | Read Only |
| 57 | BV-057 | System #1 – Notepad 1 Time Alarm | Read Only |
| 58 | BV-058 | System #1 – Notepad 2 Time Alarm | Read Only |
| 59 | BV-059 | System #1 – Notepad 3 Time Alarm | Read Only |
| 60 | BV-060 | System #1 – Notepad 4 Time Alarm | Read Only |
| 61 | BV-061 | System #1 – Notepad 5 Time Alarm | Read Only |
| 62 | BV-062 | System #1 – Notepad 6 Time Alarm | Read Only |
| 63 | BV-063 | System #1 – Notepad 7 Time Alarm | Read Only |
| 64 | BV-064 | System #1 – Notepad 8 Time Alarm | Read Only |
| 65 | BV-065 | System #1 – Notepad 9 Time Alarm | Read Only |
| 66 | BV-066 | System #1 – Notepad 10 Time Alarm | Read Only |
| 67 | BV-067 | System #1 – pH 2 Alarm | Read Only |
| 68 | BV-068 | System #1 – ORP 2 Alarm | Read Only |
| 69 | BV-069 | System #2 – Conductivity Alarm | Read Only |
| 70 | BV-070 | System #2 – pH Alarm | Read Only |
| 71 | BV-071 | System #2 – ORP Alarm | Read Only |
| 72 | BV-072 | System #2 – S. Temp Alarm | Read Only |
| 73 | BV-073 | System #2 – M. Temp Alarm | Read Only |
| 74 | BV-074 | System #2 – D. Temp Alarm | Read Only |
| 75 | BV-075 | System #2 – Timer 1 Alarm | Read Only |
| 76 | BV-076 | System #2 – Timer 2 Alarm | Read Only |
| 77 | BV-077 | System #2 – Timer 3 Alarm | Read Only |
| 78 | BV-078 | System #2 – Timer 4 Alarm | Read Only |
| 79 | BV-079 | System #2 – Timer 5 Alarm | Read Only |
| 80 | BV-080 | System #2 – All Alarms | Read Only |
| 81 | BV-081 | System #2 – Conductivity High Alarm | Read Only |
| 82 | BV-082 | System #2 – Conductivity Low Alarm | Read Only |
| 83 | BV-083 | System #2 – Conductivity Limit Alarm | Read Only |
| 84 | BV-084 | System #2 – pH High Alarm | Read Only |
| 85 | BV-085 | System #2 – pH Low Alarm | Read Only |
| 86 | BV-086 | System #2 – pH Limit Alarm | Read Only |
| 87 | BV-087 | System #2 – ORP High Alarm | Read Only |
| 88 | BV-088 | System #2 – ORP Low Alarm | Read Only |
| 89 | BV-089 | System #2 – ORP Limit Alarm | Read Only |
| 90 | BV-090 | System #2 – S. Temp High Alarm | Read Only |
| 91 | BV-091 | System #2 – S. Temp Low Alarm | Read Only |
| 92 | BV-092 | System #2 – M. Temp High Alarm | Read Only |

| 93 | BV-093 | System #2 – M. Temp Low Alarm | Read Only |
|-----|--------|---|-----------|
| 94 | BV-094 | System #2 – D. Temp High Alarm | Read Only |
| 95 | BV-095 | System #2 – D. Temp Low Alarm | Read Only |
| 96 | BV-096 | System #2 – No Flow Alarm | Read Only |
| 97 | BV-097 | System #2 – Digital Input 1 Alarm | Read Only |
| 98 | BV-098 | System #2 – Digital Input 2 Alarm | Read Only |
| 99 | BV-099 | System #2 – Digital Input 3 Alarm | Read Only |
| 100 | BV-100 | System #2 – Digital Input 4 Alarm | Read Only |
| 101 | BV-101 | System #2 – Digital Input 5 Alarm | Read Only |
| 102 | BV-102 | System #2 – M. Conductivity Alarm | Read Only |
| 103 | BV-103 | System #2 – M. Conductivity High Alarm | Read Only |
| 104 | BV-104 | System #2 – M. Conductivity Low Alarm | Read Only |
| 105 | BV-105 | System #2 – M. Conductivity Limit Alarm | Read Only |
| 106 | BV-106 | System #2 – Notepad 1 High Alarm | Read Only |
| 107 | BV-107 | System #2 – Notepad 2 High Alarm | Read Only |
| 108 | BV-108 | System #2 – Notepad 3 High Alarm | Read Only |
| 109 | BV-109 | System #2 – Notepad 4 High Alarm | Read Only |
| 110 | BV-110 | System #2 – Notepad 5 High Alarm | Read Only |
| 111 | BV-111 | System #2 – Notepad 6 High Alarm | Read Only |
| 112 | BV-112 | System #2 – Notepad 7 High Alarm | Read Only |
| 113 | BV-113 | System #2 – Notepad 8 High Alarm | Read Only |
| 114 | BV-114 | System #2 – Notepad 9 High Alarm | Read Only |
| 115 | BV-115 | System #2 – Notepad 10 High Alarm | Read Only |
| 116 | BV-116 | System #2 – Notepad 1 Low Alarm | Read Only |
| 117 | BV-117 | System #2 – Notepad 2 Low Alarm | Read Only |
| 118 | BV-118 | System #2 – Notepad 3 Low Alarm | Read Only |
| 119 | BV-119 | System #2 – Notepad 4 Low Alarm | Read Only |
| 120 | BV-120 | System #2 – Notepad 5 Low Alarm | Read Only |
| 121 | BV-121 | System #2 – Notepad 6 Low Alarm | Read Only |
| 122 | BV-122 | System #2 – Notepad 7 Low Alarm | Read Only |
| 123 | BV-123 | System #2 – Notepad 8 Low Alarm | Read Only |
| 124 | BV-124 | System #2 – Notepad 9 Low Alarm | Read Only |
| 125 | BV-125 | System #2 – Notepad 10 Low Alarm | Read Only |
| 126 | BV-126 | System #2 – Notepad 1 Time Alarm | Read Only |
| 127 | BV-127 | System #2 – Notepad 2 Time Alarm | Read Only |
| 128 | BV-128 | System #2 – Notepad 3 Time Alarm | Read Only |
| 129 | BV-129 | System #2 – Notepad 4 Time Alarm | Read Only |
| 130 | BV-130 | System #2 – Notepad 5 Time Alarm | Read Only |
| 131 | BV-131 | System #2 – Notepad 6 Time Alarm | Read Only |
| 132 | BV-132 | System #2 – Notepad 7 Time Alarm | Read Only |
| 133 | BV-133 | System #2 – Notepad 8 Time Alarm | Read Only |

| 134 | BV-134 | System #2 – Notepad 9 Time Alarm | Read Only |
|-----|--------|---|-----------|
| 135 | BV-135 | System #2 – Notepad 10 Time Alarm | Read Only |
| 136 | BV-136 | System #2 – pH 2 Alarm | Read Only |
| 137 | BV-137 | System #2 – ORP 2 Alarm | Read Only |
| 138 | BV-138 | System #3 – Conductivity Alarm | Read Only |
| 139 | BV-139 | System #3 – pH Alarm | Read Only |
| 140 | BV-140 | System #3 – ORP Alarm | Read Only |
| 141 | BV-141 | System #3 – S. Temp Alarm | Read Only |
| 142 | BV-142 | System #3 – M. Temp Alarm | Read Only |
| 143 | BV-143 | System #3 – D. Temp Alarm | Read Only |
| 144 | BV-144 | System #3 – Timer 1 Alarm | Read Only |
| 145 | BV-145 | System #3 – Timer 2 Alarm | Read Only |
| 146 | BV-146 | System #3 – Timer 3 Alarm | Read Only |
| 147 | BV-147 | System #3 – Timer 4 Alarm | Read Only |
| 148 | BV-148 | System #3 – Timer 5 Alarm | Read Only |
| 149 | BV-149 | System #3 – All Alarms | Read Only |
| 150 | BV-150 | System #3 – Conductivity High Alarm | Read Only |
| 151 | BV-151 | System #3 – Conductivity Low Alarm | Read Only |
| 152 | BV-152 | System #3 – Conductivity Limit Alarm | Read Only |
| 153 | BV-153 | System #3 – pH High Alarm | Read Only |
| 154 | BV-154 | System #3 – pH Low Alarm | Read Only |
| 155 | BV-155 | System #3 – pH Limit Alarm | Read Only |
| 156 | BV-156 | System #3 – ORP High Alarm | Read Only |
| 157 | BV-157 | System #3 – ORP Low Alarm | Read Only |
| 158 | BV-158 | System #3 – ORP Limit Alarm | Read Only |
| 159 | BV-159 | System #3 – S. Temp High Alarm | Read Only |
| 160 | BV-160 | System #3 – S. Temp Low Alarm | Read Only |
| 161 | BV-161 | System #3 – M. Temp High Alarm | Read Only |
| 162 | BV-162 | System #3 – M. Temp Low Alarm | Read Only |
| 163 | BV-163 | System #3 – D. Temp High Alarm | Read Only |
| 164 | BV-164 | System #3 – D. Temp Low Alarm | Read Only |
| 165 | BV-165 | System #3 – No Flow Alarm | Read Only |
| 166 | BV-166 | System #3 – Digital Input 1 Alarm | Read Only |
| 167 | BV-167 | System #3 – Digital Input 2 Alarm | Read Only |
| 168 | BV-168 | System #3 – Digital Input 3 Alarm | Read Only |
| 169 | BV-169 | System #3 – Digital Input 4 Alarm | Read Only |
| 170 | BV-170 | System #3 – Digital Input 5 Alarm | Read Only |
| 171 | BV-171 | System #3 – M. Conductivity Alarm | Read Only |
| 172 | BV-172 | System #3 – M. Conductivity High Alarm | Read Only |
| 173 | BV-173 | System #3 – M. Conductivity Low Alarm | Read Only |
| 174 | BV-174 | System #3 – M. Conductivity Limit Alarm | Read Only |

| 175 | BV-175 | System #3 – Notepad 1 High Alarm | Read Only |
|-----|--------|-----------------------------------|-----------|
| 176 | BV-176 | System #3 – Notepad 2 High Alarm | Read Only |
| 177 | BV-177 | System #3 – Notepad 3 High Alarm | Read Only |
| 178 | BV-178 | System #3 – Notepad 4 High Alarm | Read Only |
| 179 | BV-179 | System #3 – Notepad 5 High Alarm | Read Only |
| 180 | BV-180 | System #3 – Notepad 6 High Alarm | Read Only |
| 181 | BV-181 | System #3 – Notepad 7 High Alarm | Read Only |
| 182 | BV-182 | System #3 – Notepad 8 High Alarm | Read Only |
| 183 | BV-183 | System #3 – Notepad 9 High Alarm | Read Only |
| 184 | BV-184 | System #3 – Notepad 10 High Alarm | Read Only |
| 185 | BV-185 | System #3 – Notepad 1 Low Alarm | Read Only |
| 186 | BV-186 | System #3 – Notepad 2 Low Alarm | Read Only |
| 187 | BV-187 | System #3 – Notepad 3 Low Alarm | Read Only |
| 188 | BV-188 | System #3 – Notepad 4 Low Alarm | Read Only |
| 189 | BV-189 | System #3 – Notepad 5 Low Alarm | Read Only |
| 190 | BV-190 | System #3 – Notepad 6 Low Alarm | Read Only |
| 191 | BV-191 | System #3 – Notepad 7 Low Alarm | Read Only |
| 192 | BV-192 | System #3 – Notepad 8 Low Alarm | Read Only |
| 193 | BV-193 | System #3 – Notepad 9 Low Alarm | Read Only |
| 194 | BV-194 | System #3 – Notepad 10 Low Alarm | Read Only |
| 195 | BV-195 | System #3 – Notepad 1 Time Alarm | Read Only |
| 196 | BV-196 | System #3 – Notepad 2 Time Alarm | Read Only |
| 197 | BV-197 | System #3 – Notepad 3 Time Alarm | Read Only |
| 198 | BV-198 | System #3 – Notepad 4 Time Alarm | Read Only |
| 199 | BV-199 | System #3 – Notepad 5 Time Alarm | Read Only |
| 200 | BV-200 | System #3 – Notepad 6 Time Alarm | Read Only |
| 201 | BV-201 | System #3 – Notepad 7 Time Alarm | Read Only |
| 202 | BV-202 | System #3 – Notepad 8 Time Alarm | Read Only |
| 203 | BV-203 | System #3 – Notepad 9 Time Alarm | Read Only |
| 204 | BV-204 | System #3 – Notepad 10 Time Alarm | Read Only |
| 205 | BV-205 | System #3 – pH 2 Alarm | Read Only |
| 206 | BV-206 | System #3 – ORP 2 Alarm | Read Only |
| 207 | BV-207 | System #4 – Conductivity Alarm | Read Only |
| 208 | BV-208 | System #4 – pH Alarm | Read Only |
| 209 | BV-209 | System #4 – ORP Alarm | Read Only |
| 210 | BV-210 | System #4 – S. Temp Alarm | Read Only |
| 211 | BV-211 | System #4 – M. Temp Alarm | Read Only |
| 212 | BV-212 | System #4 – D. Temp Alarm | Read Only |
| 213 | BV-213 | System #4 – Timer 1 Alarm | Read Only |
| 214 | BV-214 | System #4 – Timer 2 Alarm | Read Only |
| 215 | BV-215 | System #4 – Timer 3 Alarm | Read Only |

| 216 | BV-216 | System #4 – Timer 4 Alarm | Read Only |
|-----|--------|---|-----------|
| 217 | BV-217 | System #4 – Timer 5 Alarm | Read Only |
| 218 | BV-218 | System #4 – All Alarms | Read Only |
| 219 | BV-219 | System #4 – Conductivity High Alarm | Read Only |
| 220 | BV-220 | System #4 – Conductivity Low Alarm | Read Only |
| 221 | BV-221 | System #4 – Conductivity Limit Alarm | Read Only |
| 222 | BV-222 | System #4 – pH High Alarm | Read Only |
| 223 | BV-223 | System #4 – pH Low Alarm | Read Only |
| 224 | BV-224 | System #4 – pH Limit Alarm | Read Only |
| 225 | BV-225 | System #4 – ORP High Alarm | Read Only |
| 226 | BV-226 | System #4 – ORP Low Alarm | Read Only |
| 227 | BV-227 | System #4 – ORP Limit Alarm | Read Only |
| 228 | BV-228 | System #4 – S. Temp High Alarm | Read Only |
| 229 | BV-229 | System #4 – S. Temp Low Alarm | Read Only |
| 230 | BV-230 | System #4 – M. Temp High Alarm | Read Only |
| 231 | BV-231 | System #4 – M. Temp Low Alarm | Read Only |
| 232 | BV-232 | System #4 – D. Temp High Alarm | Read Only |
| 233 | BV-233 | System #4 – D. Temp Low Alarm | Read Only |
| 234 | BV-234 | System #4 – No Flow Alarm | Read Only |
| 235 | BV-235 | System #4 – Digital Input 1 Alarm | Read Only |
| 236 | BV-236 | System #4 – Digital Input 2 Alarm | Read Only |
| 237 | BV-237 | System #4 – Digital Input 3 Alarm | Read Only |
| 238 | BV-238 | System #4 – Digital Input 4 Alarm | Read Only |
| 239 | BV-239 | System #4 – Digital Input 5 Alarm | Read Only |
| 240 | BV-240 | System #4 – M. Conductivity Alarm | Read Only |
| 241 | BV-241 | System #4 – M. Conductivity High Alarm | Read Only |
| 242 | BV-242 | System #4 – M. Conductivity Low Alarm | Read Only |
| 243 | BV-243 | System #4 – M. Conductivity Limit Alarm | Read Only |
| 244 | BV-244 | System #4 – Notepad 1 High Alarm | Read Only |
| 245 | BV-245 | System #4 – Notepad 2 High Alarm | Read Only |
| 246 | BV-246 | System #4 – Notepad 3 High Alarm | Read Only |
| 247 | BV-247 | System #4 – Notepad 4 High Alarm | Read Only |
| 248 | BV-248 | System #4 – Notepad 5 High Alarm | Read Only |
| 249 | BV-249 | System #4 – Notepad 6 High Alarm | Read Only |
| 250 | BV-250 | System #4 – Notepad 7 High Alarm | Read Only |
| 251 | BV-251 | System #4 – Notepad 8 High Alarm | Read Only |
| 252 | BV-252 | System #4 – Notepad 9 High Alarm | Read Only |
| 253 | BV-253 | System #4 – Notepad 10 High Alarm | Read Only |
| 254 | BV-254 | System #4 – Notepad 1 Low Alarm | Read Only |
| 255 | BV-255 | System #4 – Notepad 2 Low Alarm | Read Only |
| 256 | BV-256 | System #4 – Notepad 3 Low Alarm | Read Only |
| | | - | |

| 257 BV-257 System #4 – Notepad 4 Low Alarm Read Only 258 BV-258 System #4 – Notepad 5 Low Alarm Read Only 259 BV-259 System #4 – Notepad 6 Low Alarm Read Only 260 BV-260 System #4 – Notepad 7 Low Alarm Read Only 261 BV-261 System #4 – Notepad 9 Low Alarm Read Only 262 BV-262 System #4 – Notepad 9 Low Alarm Read Only 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 5 Time Alarm Read Only 270 BV-270 System #4 – Notepad 5 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 | | | | |
|--|-----|--------|-----------------------------------|-----------|
| 259 BV-259 System #4 – Notepad 6 Low Alarm Read Only 260 BV-260 System #4 – Notepad 7 Low Alarm Read Only 261 BV-261 System #4 – Notepad 8 Low Alarm Read Only 262 BV-262 System #4 – Notepad 9 Low Alarm Read Only 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 5 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 270 BV-269 System #4 – Notepad 5 Time Alarm Read Only 271 BV-271 System #4 – Notepad 5 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 273 BV-272 System # | 257 | BV-257 | System #4 – Notepad 4 Low Alarm | Read Only |
| 260 BV-260 System #4 – Notepad 7 Low Alarm Read Only 261 BV-261 System #4 – Notepad 8 Low Alarm Read Only 262 BV-262 System #4 – Notepad 9 Low Alarm Read Only 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-268 System #4 – Notepad 3 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 9 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 9 Time Alarm Read Only 274 BV-274 System | 258 | BV-258 | System #4 – Notepad 5 Low Alarm | Read Only |
| 261 BV-261 System #4 – Notepad 8 Low Alarm Read Only 262 BV-262 System #4 – Notepad 9 Low Alarm Read Only 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 5 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 10 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – Notepad 10 Time Alarm Read Only 275 BV-275 Sys | 259 | BV-259 | System #4 – Notepad 6 Low Alarm | Read Only |
| 262 BV-262 System #4 – Notepad 9 Low Alarm Read Only 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-268 System #4 – Notepad 4 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 8 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 10 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – Notepad 10 Time Alarm Read Only 275 BV-275 Sy | 260 | BV-260 | System #4 – Notepad 7 Low Alarm | Read Only |
| 263 BV-263 System #4 – Notepad 10 Low Alarm Read Only 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 3 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Potepad 9 Time Alarm Read Only 274 BV-274 System #4 – Potepad 9 Time Alarm Read Only 275 BV-275 System #4 – Potepad 9 Time Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 Alarm <td>261</td> <td>BV-261</td> <td>System #4 – Notepad 8 Low Alarm</td> <td>Read Only</td> | 261 | BV-261 | System #4 – Notepad 8 Low Alarm | Read Only |
| 264 BV-264 System #4 – Notepad 1 Time Alarm Read Only 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 3 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 9 Time Alarm Read Only 274 BV-273 System #4 – PD 2 Alarm Read Only 275 BV-273 System #4 – PD 2 Alarm Read Only 276 BV-274 System #4 – ORP 2 Alarm Read Only 277 BV-275 System #4 – ORP 2 Alarm Read Only 278 BV-276 ma Input 1 High Alarm Rea | 262 | BV-262 | System #4 – Notepad 9 Low Alarm | Read Only |
| 265 BV-265 System #4 – Notepad 2 Time Alarm Read Only 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 4 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – ORP 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 Low Alarm Read Only 278 BV-278 ma Input 2 Low Alarm Read Only 280 BV-280 ma Input 2 Low Alarm Read Only <td>263</td> <td>BV-263</td> <td>System #4 – Notepad 10 Low Alarm</td> <td>Read Only</td> | 263 | BV-263 | System #4 – Notepad 10 Low Alarm | Read Only |
| 266 BV-266 System #4 – Notepad 3 Time Alarm Read Only 267 BV-267 System #4 – Notepad 4 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 9 Time Alarm Read Only 272 BV-272 System #4 – Notepad 10 Time Alarm Read Only 273 BV-273 System #4 – DH 2 Alarm Read Only 274 BV-274 System #4 – DH 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 2 Low Alarm Read Only 280 BV-280 ma Input 2 Low Alarm Read Only 281 BV-281 ma Input 3 Alarm Read Only 283 | 264 | BV-264 | System #4 – Notepad 1 Time Alarm | Read Only |
| 267 BV-267 System #4 – Notepad 4 Time Alarm Read Only 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 8 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – DRP 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-276 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 2 Low Alarm Read Only 279 BV-279 ma Input 2 High Alarm Read Only 280 BV-280 ma Input 2 Low Alarm Read Only 281 BV-281 ma Input 3 Alarm Read Only 283 | 265 | BV-265 | System #4 – Notepad 2 Time Alarm | Read Only |
| 268 BV-268 System #4 – Notepad 5 Time Alarm Read Only 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 8 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – PH 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-275 System #4 – ORP 2 Alarm Read Only 277 BV-276 ma Input 1 High Alarm Read Only 278 BV-277 ma Input 2 Low Alarm Read Only 279 BV-279 ma Input 2 Low Alarm Read Only 280 BV-280 ma Input 3 Alarm Read Only 281 BV-281 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 | 266 | BV-266 | System #4 – Notepad 3 Time Alarm | Read Only |
| 269 BV-269 System #4 – Notepad 6 Time Alarm Read Only 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 8 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – PH 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 2 Alarm Read Only 279 BV-279 ma Input 2 High Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 <td>267</td> <td>BV-267</td> <td>System #4 – Notepad 4 Time Alarm</td> <td>Read Only</td> | 267 | BV-267 | System #4 – Notepad 4 Time Alarm | Read Only |
| 270 BV-270 System #4 – Notepad 7 Time Alarm Read Only 271 BV-271 System #4 – Notepad 8 Time Alarm Read Only 272 BV-272 System #4 – Notepad 9 Time Alarm Read Only 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – PH 2 Alarm Read Only 275 BV-274 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 <t< td=""><td>268</td><td>BV-268</td><td>System #4 – Notepad 5 Time Alarm</td><td>Read Only</td></t<> | 268 | BV-268 | System #4 – Notepad 5 Time Alarm | Read Only |
| 271 BV-271 System #4 - Notepad 8 Time Alarm Read Only 272 BV-272 System #4 - Notepad 9 Time Alarm Read Only 273 BV-273 System #4 - Notepad 10 Time Alarm Read Only 274 BV-274 System #4 - PH 2 Alarm Read Only 275 BV-275 System #4 - ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 Low Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 Low Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 High Alarm Read Only 286 BV-286 ma Input 5 | 269 | BV-269 | System #4 – Notepad 6 Time Alarm | Read Only |
| 272 BV-272 System #4 - Notepad 9 Time Alarm Read Only 273 BV-273 System #4 - Notepad 10 Time Alarm Read Only 274 BV-274 System #4 - pH 2 Alarm Read Only 275 BV-275 System #4 - ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 Low Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 Low Alarm Read Only 287 BV-287 ma Input 5 High Alarm | 270 | BV-270 | System #4 – Notepad 7 Time Alarm | Read Only |
| 273 BV-273 System #4 – Notepad 10 Time Alarm Read Only 274 BV-274 System #4 – pH 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-281 ma Input 3 Alarm Read Only 283 BV-282 ma Input 3 High Alarm Read Only 284 BV-283 ma Input 3 Low Alarm Read Only 285 BV-284 ma Input 4 Alarm Read Only 286 BV-285 ma Input 4 Low Alarm Read Only 287 BV-287 ma Input 5 Alarm Read Only 288 BV-289 ma Input 5 Low Alarm Read | 271 | BV-271 | System #4 – Notepad 8 Time Alarm | Read Only |
| 274 BV-274 System #4 – pH 2 Alarm Read Only 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-281 ma Input 3 Alarm Read Only 283 BV-282 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 5 Alarm Read Only 288 BV-288 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only | 272 | BV-272 | System #4 – Notepad 9 Time Alarm | Read Only |
| 275 BV-275 System #4 – ORP 2 Alarm Read Only 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 Low Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 Low Alarm Read Only 287 BV-287 ma Input 5 Alarm Read Only 288 BV-288 ma Input 5 Low Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only | 273 | BV-273 | System #4 – Notepad 10 Time Alarm | Read Only |
| 276 BV-276 ma Input 1 Alarm Read Only 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 High Alarm Read Only 289 BV-289 ma Input 5 Low Alarm Read Only 290 BV-290 ma Input 6 Alarm Read Only 291 BV-291 ma Input 6 High Alarm Read Only | 274 | BV-274 | System #4 – pH 2 Alarm | Read Only |
| 277 BV-277 ma Input 1 High Alarm Read Only 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 Low Alarm Read Only 290 BV-290 ma Input 6 Alarm Read Only 291 BV-291 ma Input 6 Low Alarm Read Only 292 BV-292 ma Input 6 Low Alarm Read Only </td <td>275</td> <td>BV-275</td> <td>System #4 – ORP 2 Alarm</td> <td>Read Only</td> | 275 | BV-275 | System #4 – ORP 2 Alarm | Read Only |
| 278 BV-278 ma Input 1 Low Alarm Read Only 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-284 ma Input 4 Alarm Read Only 286 BV-285 ma Input 4 High Alarm Read Only 287 BV-286 ma Input 4 Low Alarm Read Only 288 BV-287 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 6 Alarm Read Only 291 BV-291 ma Input 6 High Alarm Read Only 292 BV-292 ma Input 6 Low Alarm Read Only 293 BV-293 ma Input 7 Alarm Read Only | 276 | BV-276 | ma Input 1 Alarm | Read Only |
| 279 BV-279 ma Input 2 Alarm Read Only 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-285 ma Input 4 High Alarm Read Only 287 BV-286 ma Input 4 Low Alarm Read Only 288 BV-287 ma Input 5 Alarm Read Only 289 BV-288 ma Input 5 High Alarm Read Only 290 BV-289 ma Input 6 Alarm Read Only 291 BV-291 ma Input 6 High Alarm Read Only 292 BV-292 ma Input 6 Low Alarm Read Only 293 BV-293 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only <td>277</td> <td>BV-277</td> <td>ma Input 1 High Alarm</td> <td>Read Only</td> | 277 | BV-277 | ma Input 1 High Alarm | Read Only |
| 280 BV-280 ma Input 2 High Alarm Read Only 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 Low Alarm Read Only 293 BV-293 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only < | 278 | BV-278 | ma Input 1 Low Alarm | Read Only |
| 281 BV-281 ma Input 2 Low Alarm Read Only 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 7 Alarm Read Only 294 BV-294 ma Input 7 High Alarm Read Only 295 BV-295 ma Input 7 Low Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only | 279 | BV-279 | ma Input 2 Alarm | Read Only |
| 282 BV-282 ma Input 3 Alarm Read Only 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 7 Alarm Read Only 294 BV-294 ma Input 7 High Alarm Read Only 295 BV-295 ma Input 7 Low Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only | 280 | BV-280 | ma Input 2 High Alarm | Read Only |
| 283 BV-283 ma Input 3 High Alarm Read Only 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-290 ma Input 6 Alarm Read Only 292 BV-291 ma Input 6 High Alarm Read Only 293 BV-292 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 281 | BV-281 | ma Input 2 Low Alarm | Read Only |
| 284 BV-284 ma Input 3 Low Alarm Read Only 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-291 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 282 | BV-282 | ma Input 3 Alarm | Read Only |
| 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 283 | BV-283 | ma Input 3 High Alarm | Read Only |
| 285 BV-285 ma Input 4 Alarm Read Only 286 BV-286 ma Input 4 High Alarm Read Only 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 284 | BV-284 | ma Input 3 Low Alarm | Read Only |
| 287 BV-287 ma Input 4 Low Alarm Read Only 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 285 | BV-285 | ma Input 4 Alarm | ı |
| 288 BV-288 ma Input 5 Alarm Read Only 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 8 Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 286 | BV-286 | ma Input 4 High Alarm | Read Only |
| 289 BV-289 ma Input 5 High Alarm Read Only 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 287 | BV-287 | ma Input 4 Low Alarm | Read Only |
| 290 BV-290 ma Input 5 Low Alarm Read Only 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 288 | BV-288 | ma Input 5 Alarm | Read Only |
| 291 BV-291 ma Input 6 Alarm Read Only 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 289 | BV-289 | ma Input 5 High Alarm | Read Only |
| 292 BV-292 ma Input 6 High Alarm Read Only 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 290 | BV-290 | ma Input 5 Low Alarm | Read Only |
| 293 BV-293 ma Input 6 Low Alarm Read Only 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 291 | BV-291 | ma Input 6 Alarm | Read Only |
| 294 BV-294 ma Input 7 Alarm Read Only 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 292 | BV-292 | ma Input 6 High Alarm | Read Only |
| 295 BV-295 ma Input 7 High Alarm Read Only 296 BV-296 ma Input 7 Low Alarm Read Only 297 BV-297 ma Input 8 Alarm Read Only | 293 | BV-293 | ma Input 6 Low Alarm | Read Only |
| 296BV-296ma Input 7 Low AlarmRead Only297BV-297ma Input 8 AlarmRead Only | 294 | BV-294 | ma Input 7 Alarm | Read Only |
| 297 BV-297 ma Input 8 Alarm Read Only | 295 | BV-295 | ma Input 7 High Alarm | Read Only |
| | 296 | BV-296 | ma Input 7 Low Alarm | Read Only |
| 298 BV-298 ma Input 8 High Alarm Read Only | 297 | BV-297 | ma Input 8 Alarm | Read Only |
| | 298 | BV-298 | ma Input 8 High Alarm | Read Only |
| 299 BV-299 ma Input 8 Low Alarm Read Only | 299 | BV-299 | ma Input 8 Low Alarm | Read Only |

Analog Input Object Instance Summary (Table 1-4)

| Instance ID | Object Name | Purpose | Present Value – Access |
|-------------|-------------|---------------------------------------|------------------------|
| 0 | AI-000 | System #1 – Conductivity | Read Only |
| 1 | AI-001 | System #2 – Conductivity | Read Only |
| 2 | AI-002 | System #3 – Conductivity | Read Only |
| 3 | AI-003 | System #4 – Conductivity | Read Only |
| 4 | AI-004 | System #1 – M. Conductivity | Read Only |
| 5 | AI-005 | System #2 – M. Conductivity | Read Only |
| 6 | AI-006 | System #3 – M. Conductivity | Read Only |
| 7 | AI-007 | System #4 – M. Conductivity | Read Only |
| 8 | AI-008 | System #1 – pH | Read Only |
| 9 | AI-009 | System #2 – pH | Read Only |
| 10 | AI-010 | System #3 – pH | Read Only |
| 11 | AI-011 | System #4 – pH | Read Only |
| 12 | AI-012 | System #1 – ORP | Read Only |
| 13 | AI-013 | System #2 – ORP | Read Only |
| 14 | AI-014 | System #3 – ORP | Read Only |
| 15 | AI-015 | System #4 – ORP | Read Only |
| 16 | AI-016 | System #1 – S. Temp | Read Only |
| 17 | AI-017 | System #2 – S. Temp | Read Only |
| 18 | AI-018 | System #3 – S. Temp | Read Only |
| 19 | AI-019 | System #4 - S. Temp | Read Only |
| 20 | AI-020 | System #1 – M. Temp | Read Only |
| 21 | AI-021 | System #2 – M. Temp | Read Only |
| 22 | AI-022 | System #3 – M. Temp | Read Only |
| 23 | AI-023 | System #4 – M. Temp | Read Only |
| 24 | AI-024 | Sys #1 – Water Meter #1 - Total Value | Read Only |
| 25 | AI-025 | Sys #2 – Water Meter #1 - Total Value | Read Only |
| 26 | AI-026 | Sys #3 – Water Meter #1 - Total Value | Read Only |
| 27 | AI-027 | Sys #4 – Water Meter #1 - Total Value | Read Only |
| 28 | AI-028 | Sys #1 – Water Meter #2 - Total Value | Read Only |
| 29 | AI-029 | Sys #2 – Water Meter #2 - Total Value | Read Only |
| 30 | AI-030 | Sys #3 – Water Meter #2 - Total Value | Read Only |
| 31 | AI-031 | Sys #4 – Water Meter #2 - Total Value | Read Only |
| 32 | AI-032 | System #1 – M.Cycles | Read Only |
| 33 | AI-033 | System #2 – M.Cycles | Read Only |
| 34 | AI-034 | System #3 – M.Cycles | Read Only |
| 35 | AI-035 | System #4 – M.Cycles | Read Only |
| 36 | AI-036 | 4-20 mA / 0-5V Input #1 - Value | Read Only |
| 37 | AI-037 | 4-20 mA / 0-5V Input #2 - Value | Read Only |

| 38 | AI-038 | 4-20 mA / 0-5V Input #3 - Value | Read Only |
|----|--------|--------------------------------------|-----------|
| 39 | AI-039 | 4-20 mA / 0-5V Input #4 - Value | Read Only |
| 40 | AI-040 | 4-20 mA / 0-5V Input #5 - Value | Read Only |
| 41 | AI-041 | 4-20 mA / 0-5V Input #6 - Value | Read Only |
| 42 | AI-042 | 4-20 mA / 0-5V Input #7 - Value | Read Only |
| 43 | AI-043 | 4-20 mA / 0-5V Input #8 - Value | Read Only |
| 44 | AI-044 | Flow Meter #1 – Total Value | Read Only |
| 45 | AI-045 | Flow Meter #2 – Total Value | Read Only |
| 46 | AI-046 | Flow Meter #3 – Total Value | Read Only |
| 47 | AI-047 | Flow Meter #4 – Total Value | Read Only |
| 48 | AI-048 | Flow Meter #5 – Total Value | Read Only |
| 49 | AI-049 | Flow Meter #6 – Total Value | Read Only |
| 50 | AI-050 | Flow Meter #7 – Total Value | Read Only |
| 51 | AI-051 | Flow Meter #8 – Total Value | Read Only |
| 52 | AI-052 | Flow Meter #9 – Total Value | Read Only |
| 53 | AI-053 | Flow Meter #10 – Total Value | Read Only |
| 54 | AI-054 | Flow Meter #1 – Flow Rate (per MIN) | Read Only |
| 55 | AI-055 | Flow Meter #2 – Flow Rate (per MIN) | Read Only |
| 56 | AI-056 | Flow Meter #3 – Flow Rate (per MIN) | Read Only |
| 57 | AI-057 | Flow Meter #4 – Flow Rate (per MIN) | Read Only |
| 58 | AI-058 | Flow Meter #5 – Flow Rate (per MIN) | Read Only |
| 59 | AI-059 | Flow Meter #6 – Flow Rate (per MIN) | Read Only |
| 60 | AI-060 | Flow Meter #7 – Flow Rate (per MIN) | Read Only |
| 61 | AI-061 | Flow Meter #8 – Flow Rate (per MIN) | Read Only |
| 62 | AI-062 | Flow Meter #9 – Flow Rate (per MIN) | Read Only |
| 63 | AI-063 | Flow Meter #10 – Flow Rate (per MIN) | Read Only |
| | | | |

Analog Value Object Instance Summary (Table 1-5)

| Instance ID | Object Name | Purpose | Present Value – Access |
|-------------|-------------|--------------------------------------|------------------------|
| 0 | AV-000 | System #1 – Conductivity Setpoint #1 | Read Only |
| 1 | AV-001 | System #2 – Conductivity Setpoint #1 | Read Only |
| 2 | AV-002 | System #3 – Conductivity Setpoint #1 | Read Only |
| 3 | AV-003 | System #4 – Conductivity Setpoint #1 | Read Only |
| 4 | AV-004 | System #1 – Conductivity Setpoint #2 | Read Only |
| 5 | AV-005 | System #2 – Conductivity Setpoint #2 | Read Only |
| 6 | AV-006 | System #3 – Conductivity Setpoint #2 | Read Only |
| 7 | AV-007 | System #4 – Conductivity Setpoint #2 | Read Only |
| 8 | AV-008 | System #1 – Conductivity High Alarm | Read Only |
| 9 | AV-009 | System #2 – Conductivity High Alarm | Read Only |

| 10 | AV-010 | System #3 – Conductivity High Alarm | Read Only |
|----|--------|--|-----------|
| 11 | AV-011 | System #4 – Conductivity High Alarm | Read Only |
| 12 | AV-012 | System #1 – Conductivity Low Alarm | Read Only |
| 13 | AV-013 | System #2 – Conductivity Low Alarm | Read Only |
| 14 | AV-014 | System #3 – Conductivity Low Alarm | Read Only |
| 15 | AV-015 | System #4 – Conductivity Low Alarm | Read Only |
| 16 | AV-016 | System #1 – M. Conductivity Setpoint | Read Only |
| 17 | AV-017 | System #2 – M. Conductivity Setpoint | Read Only |
| 18 | AV-018 | System #3 – M. Conductivity Setpoint | Read Only |
| 19 | AV-019 | System #4 – M. Conductivity Setpoint | Read Only |
| 20 | AV-020 | System #1 – M. Conductivity High Alarm | Read Only |
| 21 | AV-021 | System #2 – M. Conductivity High Alarm | Read Only |
| 22 | AV-022 | System #3 – M. Conductivity High Alarm | Read Only |
| 23 | AV-023 | System #4 – M. Conductivity High Alarm | Read Only |
| 24 | AV-024 | System #1 – M. Conductivity Low Alarm | Read Only |
| 25 | AV-025 | System #2 – M. Conductivity Low Alarm | Read Only |
| 26 | AV-026 | System #3 – M. Conductivity Low Alarm | Read Only |
| 27 | AV-027 | System #4 – M. Conductivity Low Alarm | Read Only |
| 28 | AV-028 | System #1 – pH Setpoint #1 | Read Only |
| 29 | AV-029 | System #2 – pH Setpoint #1 | Read Only |
| 30 | AV-030 | System #3 – pH Setpoint #1 | Read Only |
| 31 | AV-031 | System #4 – pH Setpoint #1 | Read Only |
| 32 | AV-032 | System #1 – pH Setpoint #2 | Read Only |
| 33 | AV-033 | System #2 – pH Setpoint #2 | Read Only |
| 34 | AV-034 | System #3 – pH Setpoint #2 | Read Only |
| 35 | AV-035 | System #4 – pH Setpoint #2 | Read Only |
| 36 | AV-036 | System #1 – pH High Alarm | Read Only |
| 37 | AV-037 | System #2 – pH High Alarm | Read Only |
| 38 | AV-038 | System #3 – pH High Alarm | Read Only |
| 39 | AV-039 | System #4 – pH High Alarm | Read Only |
| 40 | AV-040 | System #1 – pH Low Alarm | Read Only |
| 41 | AV-041 | System #2 – pH Low Alarm | Read Only |
| 42 | AV-042 | System #3 – pH Low Alarm | Read Only |
| 43 | AV-043 | System #4 – pH Low Alarm | Read Only |
| 44 | AV-044 | System #1 – ORP Setpoint #1 | Read Only |
| 45 | AV-045 | System #2 – ORP Setpoint #1 | Read Only |
| 46 | AV-046 | System #3 – ORP Setpoint #1 | Read Only |
| 47 | AV-047 | System #4 – ORP Setpoint #1 | Read Only |
| 48 | AV-048 | System #1 – ORP Setpoint #2 | Read Only |
| 49 | AV-049 | System #2 – ORP Setpoint #2 | Read Only |
| 50 | AV-050 | System #3 – ORP Setpoint #2 | Read Only |
| | | | |

| 51 | AV-051 | System #4 – ORP Setpoint #2 | Read Only |
|----|--------|--------------------------------|-----------|
| 52 | AV-052 | System #1 – ORP High Alarm | Read Only |
| 53 | AV-053 | System #2 – ORP High Alarm | Read Only |
| 54 | AV-054 | System #3 – ORP High Alarm | Read Only |
| 55 | AV-055 | System #4 – ORP High Alarm | Read Only |
| 56 | AV-056 | System #1 – ORP Low Alarm | Read Only |
| 57 | AV-057 | System #2 – ORP Low Alarm | Read Only |
| 58 | AV-058 | System #3 – ORP Low Alarm | Read Only |
| 59 | AV-059 | System #4 – ORP Low Alarm | Read Only |
| 60 | AV-060 | System #1 – S. Temp Setpoint | Read Only |
| 61 | AV-061 | System #2 – S. Temp Setpoint | Read Only |
| 62 | AV-062 | System #3 – S. Temp Setpoint | Read Only |
| 63 | AV-063 | System #4 – S. Temp Setpoint | Read Only |
| 64 | AV-064 | System #1 – S. Temp High Alarm | Read Only |
| 65 | AV-065 | System #2 – S. Temp High Alarm | Read Only |
| 66 | AV-066 | System #3 – S. Temp High Alarm | Read Only |
| 67 | AV-067 | System #4 – S. Temp High Alarm | Read Only |
| 68 | AV-068 | System #1 – S. Temp Low Alarm | Read Only |
| 69 | AV-069 | System #2 – S. Temp Low Alarm | Read Only |
| 70 | AV-070 | System #3 – S. Temp Low Alarm | Read Only |
| 71 | AV-071 | System #4 – S. Temp Low Alarm | Read Only |
| 72 | AV-072 | System #1 – M. Temp Setpoint | Read Only |
| 73 | AV-073 | System #2 – M. Temp Setpoint | Read Only |
| 74 | AV-074 | System #3 – M. Temp Setpoint | Read Only |
| 75 | AV-075 | System #4 – M. Temp Setpoint | Read Only |
| 76 | AV-076 | System #1 – M. Temp High Alarm | Read Only |
| 77 | AV-077 | System #2 – M. Temp High Alarm | Read Only |
| 78 | AV-078 | System #3 – M. Temp High Alarm | Read Only |
| 79 | AV-079 | System #4 – M. Temp High Alarm | Read Only |
| 80 | AV-080 | System #1 – M. Temp Low Alarm | Read Only |
| 81 | AV-081 | System #2 – M. Temp Low Alarm | Read Only |
| 82 | AV-082 | System #3 – M. Temp Low Alarm | Read Only |
| 83 | AV-083 | System #4 – M. Temp Low Alarm | Read Only |
| 84 | AV-084 | System #1 – D. Temp Setpoint | Read Only |
| 85 | AV-085 | System #2 – D. Temp Setpoint | Read Only |
| 86 | AV-086 | System #3 – D. Temp Setpoint | Read Only |
| 87 | AV-087 | System #4 – D. Temp Setpoint | Read Only |
| 88 | AV-088 | System #1 – D. Temp High Alarm | Read Only |
| 89 | AV-089 | System #2 – D. Temp High Alarm | Read Only |
| 90 | AV-090 | System #3 – D. Temp High Alarm | Read Only |
| 91 | AV-091 | System #4 – D. Temp High Alarm | Read Only |

| 92 | AV-092 | System #1 – D. Temp Low Alarm | Read Only |
|-----|--------|-------------------------------|-----------|
| 93 | AV-093 | System #2 – D. Temp Low Alarm | Read Only |
| 94 | AV-094 | System #3 – D. Temp Low Alarm | Read Only |
| 95 | AV-095 | System #4 – D. Temp Low Alarm | Read Only |
| 96 | AV-096 | System #1 – Flow Switch Conf. | Read Only |
| 97 | AV-097 | System #2 – Flow Switch Conf. | Read Only |
| 98 | AV-098 | System #3 – Flow Switch Conf. | Read Only |
| 99 | AV-099 | System #4 – Flow Switch Conf. | Read Only |
| 100 | AV-100 | mA 1 - Output Value | Read Only |
| 101 | AV-101 | mA 2 - Output Value | Read Only |
| 102 | AV-102 | mA 3 - Output Value | Read Only |
| 103 | AV-103 | mA 4 - Output Value | Read Only |
| 104 | AV-104 | mA 5 - Output Value | Read Only |
| 105 | AV-105 | mA 6 - Output Value | Read Only |
| | | | |

Multi-State Value Object Instance Summary (Table 1-6)

| Instance ID | Object Name | Purpose | Present Value – Access |
|-------------|-------------|------------------|------------------------|
| 0 | MSV-000 | Relay 1 – State | Read Only |
| 1 | MSV-001 | Relay 2 – State | Read Only |
| 2 | MSV-002 | Relay 3 – State | Read Only |
| 3 | MSV-003 | Relay 4 – State | Read Only |
| 4 | MSV-004 | Relay 5 – State | Read Only |
| 5 | MSV-005 | Relay 6 – State | Read Only |
| 6 | MSV-006 | Relay 7 – State | Read Only |
| 7 | MSV-007 | Relay 8 – State | Read Only |
| 8 | MSV-008 | Relay 9 – State | Read Only |
| 9 | MSV-009 | Relay 10 – State | Read Only |
| 10 | MSV-010 | Relay 11 – State | Read Only |
| 11 | MSV-011 | Relay 12 – State | Read Only |
| 12 | MSV-012 | Relay 13 – State | Read Only |
| 13 | MSV-013 | Relay 14 – State | Read Only |
| 14 | MSV-014 | Relay 15 – State | Read Only |
| 15 | MSV-015 | Relay 16 – State | Read Only |
| 16 | MSV-016 | Relay 17 – State | Read Only |
| 17 | MSV-017 | Relay 18 – State | Read Only |
| 18 | MSV-018 | Relay 19 – State | Read Only |
| 19 | MSV-019 | Relay 20 – State | Read Only |

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- Chemical Solution Tanks
- Solid Feed Systems
- Feed Timers
- > Filter Equipment
- ➤ Glycol Feed Systems
- Pre Fabricated Systems

