

**MegaTron
Controller
Supplemental**

**BACnet H21 / H25
Communications
Manual**

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BACnet

Communications Manual

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I. BACnet Introduction

The MegaTron controller is capable of connecting to the WebAdvantage Server and 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 data traffic 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. Protocol Implementation Conformance Summary (Annex-A)

Applications Software Version: JA.12.1 and higher

Firmware Revision: JA.12.1 and higher

BACnet Protocol Revision: 24

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 1-1 "Object/Property Support Matrix".

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

Character Set Supported: ANSI X3.4

MegaTron Quick Steps

Connecting to BACnet enabled MegaTron

This guide is designed to help with connecting a BACnet enabled MegaTron to a local BMS.

Note: Screens may vary slightly between models.

BACnet Setup

Step 1:

Press **Setup/Run**, **CONFIGURE**, **NETWORK**, **SETTINGS**.

(See figures 1, 2, 3 and 4. H25 dual cards add figure 3B. H25 only available for MegaTron MT.)

Step 2:

Press **BAC**.

(See figure 4.) Note: If these options are not visible, the dual network card needs to be enabled. See enabling dual network card to continue setup.

Step 3:

Enter the **DEVICE INSTANCE** and **PORT**. Press **Enter** to accept on each.

(See figure 6.)

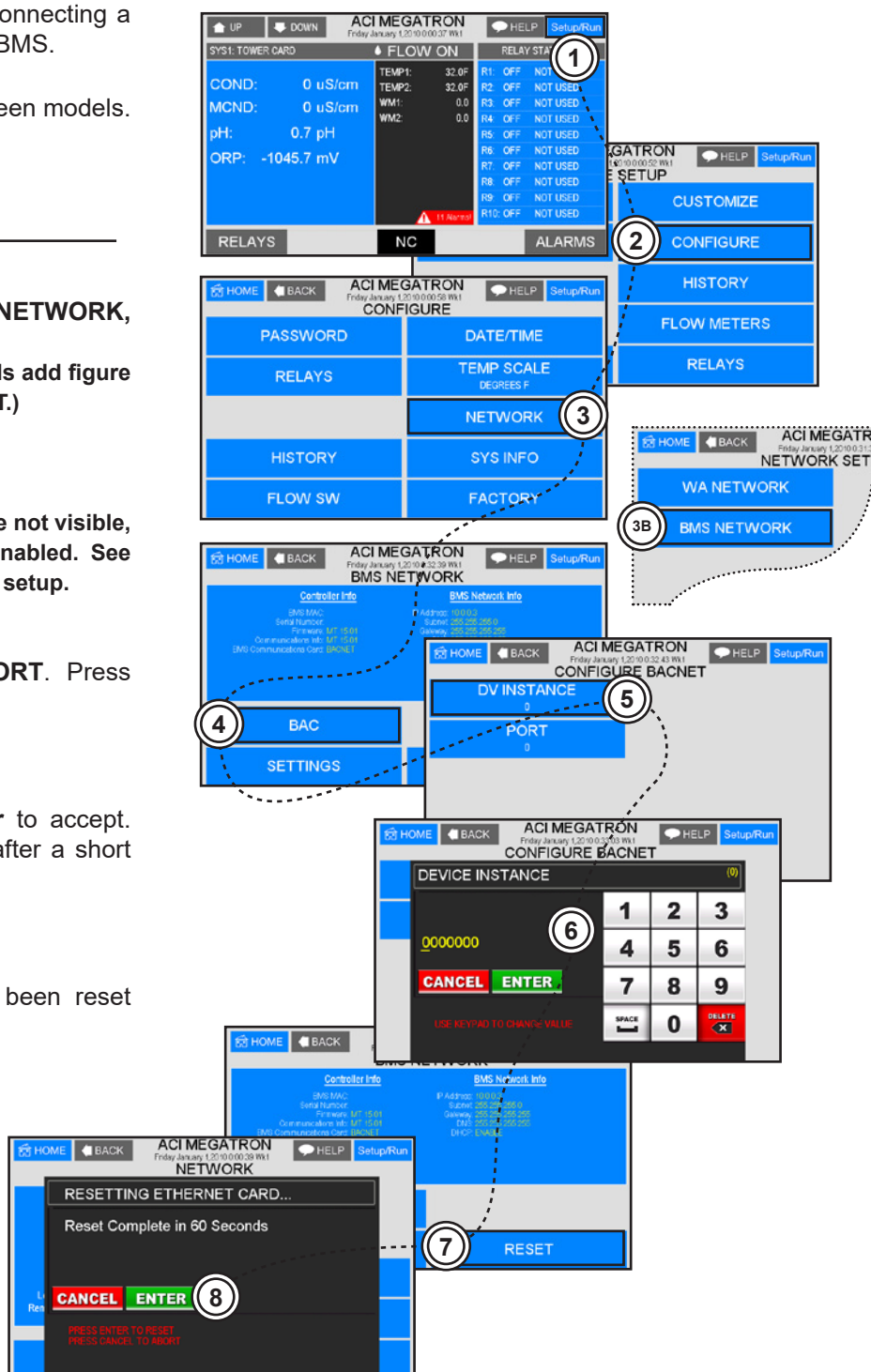
Step 4:

Press **RESET** and then press **Enter** to accept. The communications card will reset after a short countdown.

(See figures 7 and 8.)

Step 5:

After the communications card has been reset cycle power to the controller.



IV. MegaTron XS Setup

HOME > CONFIGURE > NETWORK MENU > BAC
 Note: Some versions may show DEV instead of BAC

NETWORK
 IP ADDR : 0 . 0 . 0 . 0
 SUBNET MASK : 255 . 255 . 255 . 255
 GATEWAY : 0 . 0 . 0 . 0
 DOMAIN :
 ACI SERVER : web80.advantagecontr
 HOST : mycontroller
 DHCP : 00 : 90 : c2 : d4 : 92 : 81
 Local Mode : On
 Remote Mode : On
 Dv Ins-Port : 3222305089-278092C
SETTINGS

BAC

CONFIGURE BACNET
DV INSTANCE 4194304
PORT 47808

CONFIGURE BACNET
 DV INSTANCE 4194304
 (4194304)
 [_]
 USE NUMBER KEYS TO CHANCE, PRESS
 ENTER TO ACCEPT OR BACK TO ERASE

The MegaTron XS will be a “device object” on the particular BACnet network. Each device object (your MegaTron XS) 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 XS and select the Network settings. Then select BAC.

V. Object Definitions

Object / Property Support Matrix (Table 1-1)

Property	Object Type					
	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
12	BV-012	System #1 – Conductivity High Alarm	Read Only
13	BV-013	System #1 – Conductivity Low Alarm	Read Only
14	BV-014	System #1 – Conductivity Limit Alarm	Read Only
15	BV-015	System #1 – pH High Alarm	Read Only
16	BV-016	System #1 – pH Low Alarm	Read Only
17	BV-017	System #1 – pH Limit Alarm	Read Only
18	BV-018	System #1 – ORP High Alarm	Read Only
19	BV-019	System #1 – ORP Low Alarm	Read Only
20	BV-020	System #1 – ORP Limit Alarm	Read Only
21	BV-021	System #1 – S. Temp High Alarm	Read Only
22	BV-022	System #1 – S. Temp Low Alarm	Read Only

23	BV-023	System #1 – M. Temp High Alarm	Read Only
24	BV-024	System #1 – M. Temp Low Alarm	Read Only
25	BV-025	System #1 – D. Temp High Alarm	Read Only
26	BV-026	System #1 – D. Temp Low Alarm	Read Only
27	BV-027	System #1 – No Flow Alarm	Read Only
28	BV-028	System #1 – Digital Input 1 Alarm	Read Only
29	BV-029	System #1 – Digital Input 2 Alarm	Read Only
30	BV-030	System #1 – Digital Input 3 Alarm	Read Only
31	BV-031	System #1 – Digital Input 4 Alarm	Read Only
32	BV-032	System #1 – Digital Input 5 Alarm	Read Only
34	BV-034	System #1 – M. Conductivity High Alarm	Read Only
35	BV-035	System #1 – M. Conductivity Low Alarm	Read Only
36	BV-036	System #1 – M. Conductivity Limit Alarm	Read Only
37	BV-037	System #1 – Notepad 1 High Alarm	Read Only
38	BV-038	System #1 – Notepad 2 High Alarm	Read Only
39	BV-039	System #1 – Notepad 3 High Alarm	Read Only
40	BV-040	System #1 – Notepad 4 High Alarm	Read Only
41	BV-041	System #1 – Notepad 5 High Alarm	Read Only
42	BV-042	System #1 – Notepad 6 High Alarm	Read Only
43	BV-043	System #1 – Notepad 7 High Alarm	Read Only
44	BV-044	System #1 – Notepad 8 High Alarm	Read Only
45	BV-045	System #1 – Notepad 9 High Alarm	Read Only
46	BV-046	System #1 – Notepad 10 High Alarm	Read Only
47	BV-047	System #1 – Notepad 1 Low Alarm	Read Only
48	BV-048	System #1 – Notepad 2 Low Alarm	Read Only
49	BV-049	System #1 – Notepad 3 Low Alarm	Read Only
50	BV-050	System #1 – Notepad 4 Low Alarm	Read Only
51	BV-051	System #1 – Notepad 5 Low Alarm	Read 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
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
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
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
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
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
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 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 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

277	BV-277	ma Input 1 High Alarm	Read Only
278	BV-278	ma Input 1 Low Alarm	Read Only
280	BV-280	ma Input 2 High Alarm	Read Only
281	BV-281	ma Input 2 Low Alarm	Read Only
283	BV-283	ma Input 3 High Alarm	Read Only
284	BV-284	ma Input 3 Low Alarm	Read Only
286	BV-286	ma Input 4 High Alarm	Read Only
287	BV-287	ma Input 4 Low Alarm	Read Only
289	BV-289	ma Input 5 High Alarm	Read Only
290	BV-290	ma Input 5 Low Alarm	Read Only
292	BV-292	ma Input 6 High Alarm	Read Only
293	BV-293	ma Input 6 Low 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
299	BV-299	ma Input 8 Low Alarm	Read Only
302	BV-302	Flow Meter 1 Flow Alarm	Read Only
303	BV-303	Flow Meter 1 Flow Verify Alarm	Read Only
304	BV-304	Flow Meter 1 Volume Alarm	Read Only
305	BV-305	Flow Meter 2 Flow Alarm	Read Only
306	BV-306	Flow Meter 2 Flow Verify Alarm	Read Only
307	BV-307	Flow Meter 2 Volume Alarm	Read Only
308	BV-308	Flow Meter 3 Flow Alarm	Read Only
309	BV-309	Flow Meter 3 Flow Verify Alarm	Read Only
310	BV-310	Flow Meter 3 Volume Alarm	Read Only
311	BV-311	Flow Meter 4 Flow Alarm	Read Only
312	BV-312	Flow Meter 4 Flow Verify Alarm	Read Only
313	BV-313	Flow Meter 4 Volume Alarm	Read Only
314	BV-314	Flow Meter 5 Flow Alarm	Read Only
315	BV-315	Flow Meter 5 Flow Verify Alarm	Read Only
316	BV-216	Flow Meter 5 Volume Alarm	Read Only
317	BV-317	Flow Meter 6 Flow Alarm	Read Only
318	BV-318	Flow Meter 6 Flow Verify Alarm	Read Only
319	BV-319	Flow Meter 6 Volume Alarm	Read Only
320	BV-320	Flow Meter 7 Flow Alarm	Read Only
321	BV-321	Flow Meter 7 Flow Verify Alarm	Read Only
322	BV-322	Flow Meter 7 Volume Alarm	Read Only
323	BV-323	Flow Meter 8 Flow Alarm	Read Only
324	BV-324	Flow Meter 8 Flow Verify Alarm	Read Only
325	BV-325	Flow Meter 8 Volume Alarm	Read Only
326	BV-326	Flow Meter 9 Flow Alarm	Read Only

327	BV-327	Flow Meter 9 Flow Verify Alarm	Read Only
328	BV-328	Flow Meter 9 Volume Alarm	Read Only
329	BV-329	Flow Meter 10 Flow Alarm	Read Only
330	BV-330	Flow Meter 10 Flow Verify Alarm	Read Only
331	BV-331	Flow Meter 10 Volume Alarm	Read Only
332	BV-332	Relay 1 Max Hours	Read Only
333	BV-333	Relay 2 Max Hours	Read Only
334	BV-334	Relay 3 Max Hours	Read Only
335	BV-335	Relay 4 Max Hours	Read Only
336	BV-336	Relay 5 Max Hours	Read Only
337	BV-337	Relay 6 Max Hours	Read Only
338	BV-338	Relay 7 Max Hours	Read Only
339	BV-339	Relay 8 Max Hours	Read Only
340	BV-340	Relay 9 Max Hours	Read Only
341	BV-341	Relay 10 Max Hours	Read Only
342	BV-342	Relay 11 Max Hours	Read Only
343	BV-343	Relay 12 Max Hours	Read Only
344	BV-344	Relay 13 Max Hours	Read Only
345	BV-345	Relay 14 Max Hours	Read Only
346	BV-346	Relay 15 Max Hours	Read Only
347	BV-347	Relay 16 Max Hours	Read Only
348	Bv-348	Relay 17 Max Hours	Read Only
349	BV-349	Relay 18 Max Hours	Read Only
350	BV-350	Relay 19 Max Hours	Read Only
351	BV-351	Relay 20 Max Hours	Read Only
352	BV-352	mA Input 1 Limit	Read Only
353	BV-353	mA Input 2 Limit	Read Only
354	BV-354	mA Input 3 Limit	Read Only
355	BV-355	mA Input 4 Limit	Read Only
356	BV-356	mA Input 5 Limit	Read Only
357	BV-357	mA Input 6 Limit	Read Only
358	BV-358	mA Input 7 Limit	Read Only
359	BV-359	mA Input 8 Limit	Read Only
360	BV-360	mA Input 9 Limit Alarm	Read Only
361	BV-361	mA Input 10 Limit Alarm	Read Only
362	BV-362	mA Input 11 Limit Alarm	Read Only
363	BV-363	mA Input 12 Limit Alarm	Read Only
364	BV-364	mA Input 13 Limit Alarm	Read Only
365	BV-365	mA Input 14 Limit Alarm	Read Only
366	BV-366	mA Input 15 Limit Alarm	Read Only
367	BV-367	mA Input 16 Limit Alarm	Read Only
369	BV-369	ma Input 9 High Alarm	Read Only
370	BV-370	ma Input 9 Low Alarm	Read Only

372	BV-372	ma Input 10 High Alarm	Read Only
373	BV-373	ma Input 10 Low Alarm	Read Only
375	BV-375	ma Input 11 High Alarm	Read Only
376	BV-376	ma Input 11 Low Alarm	Read Only
378	BV-378	ma Input 12 High Alarm	Read Only
379	BV-379	ma Input 12 Low Alarm	Read Only
381	BV-381	ma Input 13 High Alarm	Read Only
382	BV-382	ma Input 13 Low Alarm	Read Only
384	BV-384	ma Input 14 High Alarm	Read Only
385	BV-385	ma Input 14 Low Alarm	Read Only
387	BV-387	ma Input 15 High Alarm	Read Only
388	BV-388	ma Input 15 Low Alarm	Read Only
390	BV-390	ma Input 16 High Alarm	Read Only
391	BV-391	ma Input 16 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 – Contact Value	Read Only
46	AI-046	Flow Meter #3 – Contact Value	Read Only
47	AI-047	Flow Meter #4 – Contact Value	Read Only
48	AI-048	Flow Meter #5 – Contact Value	Read Only
49	AI-049	Flow Meter #6 – Contact Value	Read Only
50	AI-050	Flow Meter #7 – Contact Value	Read Only
51	AI-051	Flow Meter #8 – Contact Value	Read Only
52	AI-052	Flow Meter #9 – Contact Value	Read Only
53	AI-053	Flow Meter #10 – Contact 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
64	AI-064	4-20 mA / 0-5V Input #9 - Value	Read Only

65	AI-065	4-20 mA / 0-5V Input #10 - Value	Read Only
66	AI-066	4-20 mA / 0-5V Input #11 - Value	Read Only
67	AI-067	4-20 mA / 0-5V Input #12 - Value	Read Only
68	AI-068	4-20 mA / 0-5V Input #13 - Value	Read Only
69	AI-069	4-20 mA / 0-5V Input #14 - Value	Read Only
70	AI-070	4-20 mA / 0-5V Input #15 - Value	Read Only
71	AI-071	4-20 mA / 0-5V Input #16 - Value	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
106	AV-106	System #1 - Timer #1 - Run Time	Read Only
107	AV-107	System #1 - Timer #2 - Run Time	Read Only
108	AV-108	System #1 - Timer #3 - Run Time	Read Only
109	AV-109	System #1 - Timer #4 - Run Time	Read Only
110	AV-110	System #1 - Timer #5 - Run Time	Read Only

111	AV-111	System #2 - Timer #1 - Run Time	Read Only
112	AV-112	System #2 - Timer #2 - Run Time	Read Only
113	AV-113	System #2 - Timer #3 - Run Time	Read Only
114	AV-114	System #2 - Timer #4 - Run Time	Read Only
115	AV-115	System #2 - Timer #5 - Run Time	Read Only
116	AV-116	System #3 - Timer #1 - Run Time	Read Only
117	AV-117	System #3 - Timer #2 - Run Time	Read Only
118	AV-118	System #3 - Timer #3 - Run Time	Read Only
119	AV-119	System #3 - Timer #4 - Run Time	Read Only
120	AV-120	System #3 - Timer #5 - Run Time	Read Only
121	AV-121	System #4 - Timer #1 - Run Time	Read Only
122	AV-122	System #4 - Timer #2 - Run Time	Read Only
123	AV-123	System #4 - Timer #3 - Run Time	Read Only
124	AV-124	System #4 - Timer #4 - Run Time	Read Only
125	AV-125	System #4 - Timer #5 - Run Time	Read Only
126	AV-126	Read-Only	Read Only

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

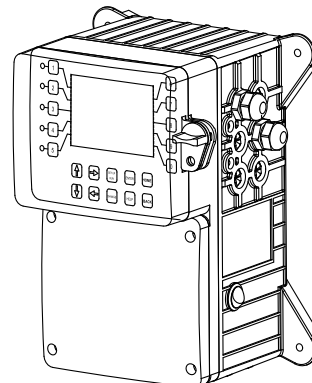
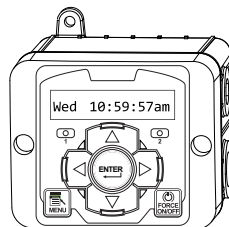
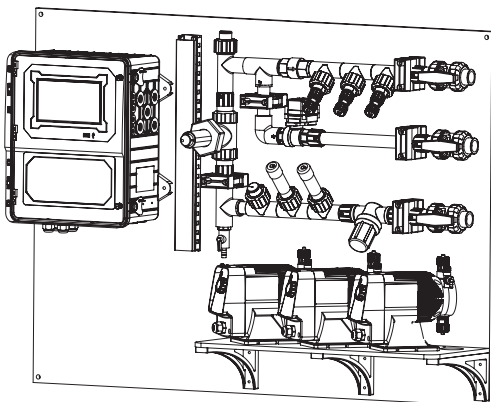
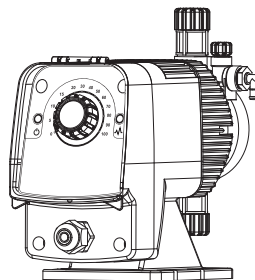
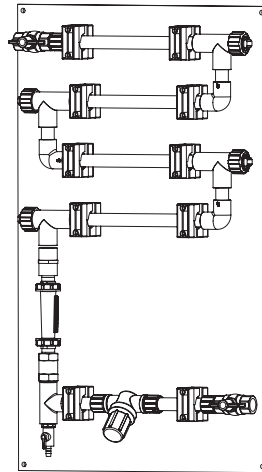
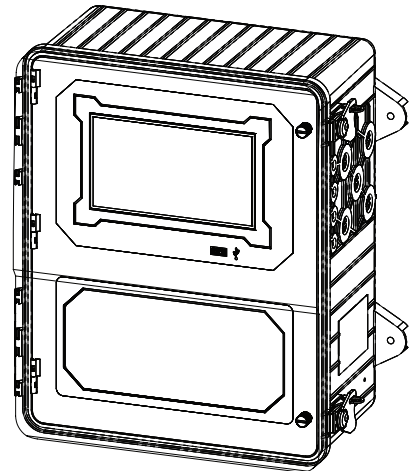
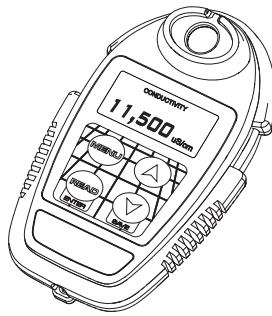
Note #1 1=H-OFF 2=H-ON 3=OFF 4=ON

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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