



## Appendix A

### Field Wire

|                 |  |                           |
|-----------------|--|---------------------------|
| <b>33242106</b> | <b>22/1.5 Pair Stranded / Shielded / Plenum / 1000' Reel in a Box / Blue</b> | <b>JCI BACnet / N2</b>    |
| <b>33282107</b> | <b>22/2 Pair Stranded / Shielded / Plenum / 1000' Reel in a Box / Brown</b>  | <b>SA BUS</b>             |
| 31146102        | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Yellow            | Input & Output            |
| 31142102        | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Yellow           | Input & Output            |
| 31146103        | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Orange            | Input & Output            |
| 31142103        | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Orange           | Input & Output            |
| 31146105        | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Green             | Input & Output            |
| 31142105        | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Green            | Input & Output            |
| 31146106        | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Blue              | Input & Output            |
| 31142106        | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Blue             | Input & Output            |
| 31146110        | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Purple            | Input & Output            |
| 31142110        | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Purple           | Input & Output            |
| <b>31146112</b> | <b>18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural</b>    | <b>Input &amp; Output</b> |
| <b>31142112</b> | <b>18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural</b>   | <b>Input &amp; Output</b> |
| 31266102        | 18/3 Stranded / Unshielded / Plenum / 500' Reel in a Box / Yellow            | Input & Output            |
| 31262102        | 18/3 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Yellow           | Input & Output            |
| 31266105        | 18/3 Stranded / Unshielded / Plenum / 500' Reel in a Box / Green             | Input & Output            |
| 31262105        | 18/3 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Green            | Input & Output            |
| 31266106        | 18/3 Stranded / Unshielded / Plenum / 500' Reel in a Box / Blue              | Input & Output            |
| 31262106        | 18/3 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Blue             | Input & Output            |
| <b>31266112</b> | <b>18/3 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural</b>    | <b>Input &amp; Output</b> |
| <b>31262112</b> | <b>18/3 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural</b>   | <b>Input &amp; Output</b> |
| 31156103        | 18/4 Stranded / Unshielded / Plenum / 500' Reel in a Box / Orange            | Input & Output            |
| 31152103        | 18/4 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Orange           | Input & Output            |
| 31156105        | 18/4 Stranded / Unshielded / Plenum / 500' Reel in a Box / Green             | Input & Output            |
| 31152105        | 18/4 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Green            | Input & Output            |
| <b>31156112</b> | <b>18/4 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural</b>    | <b>Input &amp; Output</b> |
| <b>31152112</b> | <b>18/4 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural</b>   | <b>Input &amp; Output</b> |
| 31166105        | 18/6 Stranded / Unshielded / Plenum / 500' Reel in a Box / Green             | Input & Output            |
| 31162105        | 18/6 Stranded / Unshielded / Plenum / 1000' Reel / Green                     | Input & Output            |
| <b>31176112</b> | <b>18/6 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural</b>    | <b>Input &amp; Output</b> |
| <b>31172112</b> | <b>18/6 Stranded / Unshielded / Plenum / 1000' Reel / Natural</b>            | <b>Input &amp; Output</b> |
| 31172110        | 18/8 Stranded / Unshielded / Plenum / 1000' Reel / Purple                    | Input & Output            |
| <b>31172112</b> | <b>18/8 Stranded / Unshielded / Plenum / 1000' Reel / Natural</b>            | <b>Input &amp; Output</b> |

## Appendix B

|          |   |
|----------|---|
| VG1245AD | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 1.2         |
| VG1245AE | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 1.9         |
| VG1245AF | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 2.9         |
| VG1245AG | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 4.7         |
| VG1245AL | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4         |
| VG1245AN | Ball Valve / 2W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7        |
| VG1245BG | Ball Valve / 2W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 4.7        |
| VG1245BL | Ball Valve / 2W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4        |
| VG1245BN | Ball Valve / 2W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7       |
| VG1245CL | Ball Valve / 2W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4          |
| VG1245CN | Ball Valve / 2W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7         |
| VG1245CP | Ball Valve / 2W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7         |
| VG1245DN | Ball Valve / 2W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7      |
| VG1245DP | Ball Valve / 2W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7      |
| VG1245DR | Ball Valve / 2W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2      |
| VG1245EP | Ball Valve / 2W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7       |
| VG1245ER | Ball Valve / 2W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2       |
| VG1245ES | Ball Valve / 2W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 46.8       |
| VG1245FR | Ball Valve / 2W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2         |
| VG1245FS | Ball Valve / 2W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 46.8         |
| VG1245FT | Ball Valve / 2W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 73.7         |
| VG1845AD | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 1.2/0.7     |
| VG1845AE | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 1.9/1.2     |
| VG1845AF | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 2.9/1.9     |
| VG1845AG | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 4.7/2.9     |
| VG1845AL | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4/4.7     |
| VG1845AN | Ball Valve / 3W / .5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7/5.8    |
| VG1845BG | Ball Valve / 3W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 4.7/2.9    |
| VG1845BL | Ball Valve / 3W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4/4.7    |
| VG1845BN | Ball Valve / 3W / .75" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7/5.8   |
| VG1845CL | Ball Valve / 3W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 7.4/4.7      |
| VG1845CN | Ball Valve / 3W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7/7.4     |
| VG1845CP | Ball Valve / 3W / 1" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7/9.4     |
| VG1845DN | Ball Valve / 3W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 11.7/7.4  |
| VG1845DP | Ball Valve / 3W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7/11.7 |
| VG1845DR | Ball Valve / 3W / 1.25" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2/14.8 |
| VG1845EP | Ball Valve / 3W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 18.7/11.7  |
| VG1845ER | Ball Valve / 3W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2/18.7  |
| VG1845ES | Ball Valve / 3W / 1.5" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 46.8/23.4  |
| VG1845FR | Ball Valve / 3W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 29.2/18.7    |
| VG1845FS | Ball Valve / 3W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 46.8/29.2    |
| VG1845FT | Ball Valve / 3W / 2" / Stainless Steel Ball and Stem / 200 PSIG Close-off / Cv 73.7/36.8    |

Note: All valves listed are NPT

### ACTUATORS AND LINKAGES

| VALVES | TYPE               | LINKAGE   | THERMAL SPACER | ACTUATOR     | ASSEMBLY          | ASSEMBLY for STEAM |
|--------|--------------------|-----------|----------------|--------------|-------------------|--------------------|
| 0.5"   | Non-spring return  | M9000-551 | M9000-561      | M9106-GGA-2  | Valve and +9A4GGA | Valve and H9A4GGA  |
| .75"   | Non-spring return  | M9000-551 | M9000-561      | M9106-GGA-2  | Valve and +9A4GGA | Valve and H9A4GGA  |
| 1"     | Non-spring return  | M9000-551 | M9000-561      | M9106-GGA-2  | Valve and +9A4GGA | Valve and H9A4GGA  |
| 1.25"  | Non-spring return  | M9000-520 | Built-in       | M9106-GGA-2  | Valve and +906GGA | Valve and +909GGA  |
| 1.5"   | Non-spring return  | M9000-520 | Built-in       | M9106-GGA-2  | Valve and +906GGA | Valve and +909GGA  |
| 2"     | Non-spring return  | M9000-520 | Built-in       | M9109-GGA-2  | Valve and +906GGA | Valve and +909GGA  |
| 0.5"   | Spring return N.O. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +923GGA | Valve and H923GGA  |
| 0.5"   | Spring return N.C. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +943GGA | Valve and H943GGA  |
| .75"   | Spring return N.O. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +923GGA | Valve and H923GGA  |
| .75"   | Spring return N.C. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +943GGA | Valve and H943GGA  |
| 1"     | Spring return N.O. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +923GGA | Valve and H923GGA  |
| 1"     | Spring return N.C. | M9000-560 | M9000-561      | M9203-GGA-2Z | Valve and +943GGA | Valve and H943GGA  |
| 1.25"  | Spring return N.O. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +928GGA | Valve and H928GGA  |
| 1.25"  | Spring return N.C. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +948GGA | Valve and H948GGA  |
| 1.5"   | Spring return N.O. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +928GGA | Valve and H928GGA  |
| 1.5"   | Spring return N.C. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +948GGA | Valve and H948GGA  |
| 2"     | Spring return N.O. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +928GGA | Valve and H928GGA  |
| 2"     | Spring return N.C. | M9000-560 | M9000-561      | M9208-GGA-2  | Valve and +948GGA | Valve and H948GGA  |

Note: The spring return function is in reference to port A.

Note: All valves listed are NPT

## Appendix D

### **NON-SPRING RETURN**

#### **M9104-GGA-2S**

M9104-GGA-3S

M9104-IGA-2S

M9104-IGA-3S

#### **M9106-GGA-2**

M9106-GGC-2

#### **M9106-IGA-2**

M9106-IGC-2

M9108-AGA-2

M9108-AGC-2

M9108-GGA-2

M9108-GGC-2

M9109-GGA-2

M9109-GGC-2

M9116-AGA-2

M9116-AGC-2

#### **M9116-GGA-2**

M9116-GGC-2

M9116-HGA-2

M9124-AGA-2

M9124-AGC-2

M9124-GGA-2

M9124-GGC-2

M9132-AGA-2

M9132-AGC-2

M9132-GGA-2

M9132-GGC-2

### **SPRING RETURN**

M9203-AGA-2

M9203-AGB-2

M9203-GGA-2

M9203-GGB-2

M9208-AGA-3

M9208-AGC-3

M9208-GGA-3

M9208-GGC-3

#### **M9220-AGA-3**

M9220-AGC-3

#### **M9220-GGA-3**

M9220-GGC-3

## Appendix D Cont.

### 24VAC

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**DAMPER ACTUATOR 35 IN-LB / DPR ACT 0 TO 10 VDC / PLENUM CABLE**

DAMPER ACTUATOR 35 IN-LB / DPR ACT 0 TO 10 VDC / TERMINAL SCREWS  
DAMPER ACTUATOR 35 IN-LB / DPR ACT FLOATING W/TIMEOUT / PLENUM CABLE  
DAMPER ACTUATOR 35 IN-LB / DPR ACT FLOATING W/TIMEOUT / TERMINAL SCREWS

**DAMPER ACTUATOR 53 IN-LB / DPR ACT 0-10VDC/0-20MA / 0-10VDC FB W/COVER**

DAMPER ACTUATOR 53 IN-LB / DPR ACT 0-10VDC/0-20MA / 0-10VDC FB 2 AUX SWITCHES  
**DAMPER ACTUATOR 53 IN-LB / DPR ACT ON/OFF - FLOATING / ADJ TIMING1;1.5;2;5.5;11 MIN**  
DAMPER ACTUATOR 53 IN-LB / DPR ACT ON/OFF - FLOATING / ADJ TIMING 2 AUX SWITCHES  
DAMPER ACTUATOR 70 IN-LB / DPR ACT ON/OFF - FLOATING 30 SEC  
DAMPER ACTUATOR 70 IN-LB / DPR ACT ON/OFF - FLOATING 30 SEC 2 AUX SWITCHES  
DAMPER ACTUATOR 70 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10 VDC FEEDBACK  
DAMPER ACTUATOR 70 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10VDC F/B 2 AUX SWITCHES  
DAMPER ACTUATOR 80 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10VDC FB  
DAMPER ACTUATOR 80 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10VDC FB  
DAMPER ACTUATOR 140 IN-LB / DPR ACT ON/OFF-FLOATING 80 SEC  
DAMPER ACTUATOR 140 IN-LB / DPR ACT ON/OFF-FLOATING 80 SEC 2 AUX SWITCHES

**DAMPER ACTUATOR 140 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10VDC F/B**

DAMPER ACTUATOR 140 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10VDC F/B 2 AUX SWITCHES  
DAMPER ACTUATOR 140 IN-LB / DPR ACT 0-10VDC/0-20 MA / W/ZERO-SPAN 0-10 VDC  
DAMPER ACTUATOR 210 IN-LB / DPR ACT ON/OFF-FLOATING 125 SEC  
DAMPER ACTUATOR 210 IN-LB / DPR ACT ON/OFF-FLOATING 125 SEC 2 AUX SWITCHES  
DAMPER ACTUATOR 210 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10 VDC F/B  
DAMPER ACTUATOR 210 IN-LB / DPR ACT 0-10 VDC/0-20 MA / 0-10 VDC F/B; 2 AUX SWITCHES  
DAMPER ACTUATOR 280 IN-LB / DPR ACT ON/OFF-FLOATING  
DAMPER ACTUATOR 280 IN-LB / DPR ACT ON/OFF-FLOATING 24VAC/VDC 2 AUX SWITCHES  
DAMPER ACTUATOR 280 IN-LB / DPR ACT 0-10VDC/0-20MA / 0-10VDC FB  
DAMPER ACTUATOR 280 IN-LB / DPR ACT 0-10VDC/0-20MA / 0-10VDC FB 2 AUX SWITCHES

### 24VAC

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DAMPER ACTUATOR 27 IN-LB / DPR ACT ON/OFF - FLOATING 150 SEC  
DAMPER ACTUATOR 27 IN-LB / DPR ACT ON/OFF - FLOATING 150 SEC 1 AUX SWITCHES  
DAMPER ACTUATOR 27 IN-LB / DPR ACT 0-10VDC 150 SEC  
DAMPER ACTUATOR 27 IN-LB / DPR ACT 0-10VDC 150 SEC 1 AUX SWITCHES  
DAMPER ACTUATOR 70 IN-LB / DPR ACT ON/OFF - FLOATING  
DAMPER ACTUATOR 70 IN-LB / DPR ACT ON/OFF - FLOATING 2 AUX SWITCHES  
DAMPER ACTUATOR 70 IN-LB / DPR ACT 0-10VDC  
DAMPER ACTUATOR 70 IN-LB / DPR ACT 0-10VDC 2 AUX SWITCHES

**DAMPER ACTUATOR 177 IN-LB / DPR ACT ON/OFF - FLOATING**

DAMPER ACTUATOR 177 IN-LB / DPR ACT ON/OFF - FLOATING 2 AUX SWITCHES

**DAMPER ACTUATOR 177 IN-LB / DPR ACT 0-10VDC**

DAMPER ACTUATOR 177 IN-LB / DPR ACT 0-10VDC 2 AUX SWITCHES

## Appendix E

### PROGRAMMABLE CO

#### **FX-PCG1611-0**

FX-PCG1611-0ET

FX-PCG1611-0G

#### **FX-PCG1621-0**

FX-PCG1621-0G

#### **FX-PCG2611-0**

FX-PCG2611-0ET

FX-PCG2611-0G

#### **FX-PCG2621-0**

FX-PCG2621-0G

#### **FX-PCA2611-0**

FX-PCA2612-1

### TERMINAL BOX CONT

#### **FX-PCV1615-0**

#### **FX-PCV1630-0**

#### **FX-PCV1832-0**

### EXPANSION POINT M

#### **FX-PCX1711-0**

FX-PCX1711-0G

#### **FX-PCX2711-0**

FX-PCX2711-0G

FX-PCX2721-0

#### **FX-PCX3711-0**

FX-PCX3711-0G

FX-PCX3721-0

FX-PCX3731-0

#### **FX-PCX4711-0**

FX-PCX4711-0G

### LCD DIGITAL DISPLAY

#### **FX-DIS1710-0**

FX-DIS1710-0G

### NETWORK THERMOS

TEC2101-4

TEC2101-4+PIR

TEC2102-4

TEC2102-4+PIR

TEC2103-4

TEC2103-4+PIR

TEC2104-4

TEC2104-4+PIR

### NETWORK THERMOS

TEC2601-4

TEC2601-4+PIR

TEC2602-4

TEC2602-4+PIR

#### **TEC2603-4**

TEC2603-4+PIR

TEC2604-4

TEC2604-4+PIR

### ZONING SYSTEM THE

#### **TEC2647Z-3**

TEC2647Z-3+PIR

#### **TEC2664Z-3**

## Appendix E Cont.

### CONTROLLERS

**10-point General Purpose Programmable Controller with 2 UI, 1 BI, 3 BO, and 4 CO**

10-point General Purpose Programmable Controller with 2 UI, 1 BI, 3 BO, and 4 CO, Extended Temperature Version

10-point General Purpose Programmable Controller with 2 UI, 1 BI, 3 BO, and 4 CO, Buy American

**10-point General Purpose Programmable Controller with 2 UI, 1 BI, 3 BO, and 4 CO, with integral LCD/keypad**

10-point General Purpose Programmable Controller with 2 UI, 1 BI, 3 BO, and 4 CO, with integral LCD/keypad, Buy American

**17-point General Purpose Programmable Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO**

17-point General Purpose Programmable Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO, Extended Temperature Version

17-point General Purpose Programmable Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO, Buy American

**17-point General Purpose Programmable Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO, with integral LCD/keypad**

17-point General Purpose Programmable Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO, with integral LCD/keypad, Buy American

**17-Point Advanced Application Programmable Controller with 6 UI, 2 BI, 4 CO, 3 triac type BO, and 2 AO; 24 VAC, FC Bus; SA Bus; Integral Real-Time****18-Point Advanced Application Programmable Controller with 5 UI, 4 BI, 4 CO, 2 SPDT relay type BO, and 3 SPST relay type BO; 24 VAC, FC Bus; SA**

### CONTROLLERS

**5-point BACnet Programmable 32-bit VAV Box Controller with integrated actuator and digital pressure sensor, 3 UI and 2 BO****8-point BACnet Programmable VAV Box Controller with integrated actuator and digital pressure sensor, 3 UI, 3 BO, and 2 CO****8-point N2 Programmable VAV Box Controller with integrated actuator and digital pressure sensor, 3 UI, 3 BO, and 2 CO**

### MODULES

**4-point Expansion I/O Module: 4 BI**

4-point Expansion I/O Module: 4 BI, Buy American

**6-point Expansion I/O Module: 2 UI, 2 UO, 2 RO**

6-point Expansion I/O Module: 2 UI, 2 UO, 2 RO, Buy American

10-point Expansion I/O Module: 8 UI, 2 AO

**12-point Expansion I/O Module: 4 UI, 4 UO, 4 RO**

12-point Expansion I/O Module: 4 UI, 4 UO, 4 RO, Buy American

16-point Expansion I/O Module: 16 BI

16-point Expansion I/O Module: 8 BI, 8 BO

**17-point Expansion I/O Module: 6 UI, 2 BI, 3 BO, 2 AO, 4 CO**

17-point Expansion I/O Module: 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, Buy American

### S

**Local controller display for use with FX-PCG and FX-PCV**

Local controller display for use with FX-PCG and FX-PCV, Buy American

### TATS - N2 COMMUNICATION BUS

Single Stage 1H/1C

Single Stage 1H/1C - Occupancy Sensor

Heat Pump 3H/2C

Heat Pump 3H/2C - Occupancy Sensor

Multi Stage 2H/2C

Multi Stage 2H/2C - Occupancy sensor

Economizer Multi Stage 2H2C

Economizer Multi Stage 2H2C - Occupancy Sensor

### TATS - BACnet MS/TP COMMUNICATION BUS

Single Stage 1H/1C

Single Stage 1H/1C - Occupancy Sensor

Heat Pump 3H/2C

Heat Pump 3H/2C - Occupancy Sensor

**Multi Stage 2H/2C**

Multi Stage 2H/2C - Occupancy sensor

Economizer Multi Stage 2H2C

Economizer Multi Stage 2H2C - Occupancy Sensor

### RMOSTATS - BACnet MS/TP COMMUNICATION BUS

**ZONE CONTROLLER FOR; PROPORTIONAL ZONE DAMPER ON/OFF OR PROPORTIONAL REHEAT CONTROL**

ZONE CONTROLLER WITH; OCCUPANCY SENSOR FOR PROPORT ZONE DAMPER ON/OFF OR PROPORT REHEAT CONTROL

**ROOFTOP CONTROLLER FOR; CONTROL OF UP TO 2 STAGES OF HTG & 2 STAGES OF COOLING IN ROOF TOP**

## Appendix G

### TEMPERATURE ELEMENTS - NICKEL 1K OHM

|                   |   |
|-------------------|---|
| TE-6310F-0        | Flush Mount 80x120mm / Metal                                      |
| TE-631GM-1        | Duct Probe 4" / Metal   |
| <b>TE-631GV-2</b> | <b>Duct Probe 4" / Flange Mount</b>                               |
| <b>TE-6311M-1</b> | <b>Duct Probe 8" / Metal</b>                                      |
| <b>TE-6313P-1</b> | <b>Outdoor Mount with Sun Shield / Plastic</b>                    |
| <b>TE-6314P-1</b> | <b>Wall Mount / Plastic / use TE-1800-9600 Wall Plate Adapter</b> |
| TE-6315M-1        | Duct Probe Averaging 8ft / Metal                                  |
| TE-6316M-1        | Duct Probe Averaging 17ft / Metal                                 |
| <b>TE-6316P-1</b> | <b>Duct Probe Averaging 17ft / Plastic</b>                        |
| TE-631S-1         | Strap-on Mount  |
| <b>TE-631AM-1</b> | <b>Well Immersion Mount 6" / Metal</b>                            |

### TEMPERATURE ELEMENTS - THERMISTOR 10K OHM Type II

|                   |  |
|-------------------|--|
| TE-6360F-0        | Flush Mount 80x120mm / Metal                   |
| TE-636GM-1        | Duct Probe 4" / Metal                          |
| TE-636GV-2        | Duct Probe 4" / Flange Mount                   |
| <b>TE-6361M-1</b> | <b>Duct Probe 8" / Metal</b>                   |
| <b>TE-6363P-1</b> | <b>Outdoor Mount with Sun Shield / Plastic</b> |
| TE-636S-1         | Strap-on Mount                                 |
| TE-636AM-1        | Well Immersion Mount 6" / Metal                |

### WELLS

|                     |  |
|---------------------|--|
| <b>TE-6300W-101</b> | <b>Well for 6" well immersion temperature element / Brass</b>    |
| TE-6300W-102        | Well for 6" well immersion temperature element / Stainless Steel |

### HUMIDITY ELEMENTS - WITH TEMPERATURE ELEMENT - NICKEL 1K OHM

|                      |   |
|----------------------|---|
| HE-67N2-0N0BT        | Wall Mount / Plastic / 2% Accuracy / use TE-1800-9600 Wall Plate Adapter as needed        |
| HE-67N2-0N00P        | Duct Probe 6.25" / Plastic / 2% Accuracy  |
| <b>HE-67N3-0N0BT</b> | <b>Wall Mount / Plastic / 3% Accuracy / use TE-1800-9600 Wall Plate Adapter as needed</b> |
| <b>HE-67N3-0N00P</b> | <b>Duct Probe 6.25" / Plastic / 3% Accuracy</b>   |

### CARBON DIOXIDE ELEMENTS (CO2)

|             |  |
|-------------|--|
| CD-P00-00-0 | Duct Mount 5" / Plastic / Range 0 to 2000PPM / Output 0 to 10VDC Default   |
| CD-WA0-00-0 | Wall Mount / Plastic / Range 0 to 2000PPM / Output 0 to 10VDC Default / Analog Temperature Output 0 to 10VDC (32 to 122 Deg F) |
| CD-WRD-00-0 | Wall Mount / Plastic / Range 0 to 2000PPM / Output 0 to 10VDC Default / LCD Display / SPST Relay (30V .5A Class 2)             |

### CURRENT DEVICES

|             |  |
|-------------|--|
| CSD-SF0C0-1 | Solid Core / Fixed Threshold / Low Setpt 0.25A   |
| CSD-SA1E0-1 | Solid Core / Adj. Threshold / Low Setpt 1A / LED   |
| CSD-SA1E1-1 | Solid Core / Adj. Threshold / Low Setpt 1A / LED / SPST 24V N.O. Relay                           |
| CSD-CF0A0-1 | Split Core / Fixed Threshold / Low Setpt 0.15A   |
| CSD-CA1G0-1 | Split Core / Adj. Threshold / Low Setpt 1.25A / LED  |
| CTD-C3H00-1 | Split Core / Multi Range 20-100-150A / 0-10VDC Output / Order Snap-On Relay CR-02400-01 Optional |

### FREEZE PROTECTION

|                 |   |
|-----------------|---|
| <b>A70GA-1C</b> | <b>Two Circuit Control / 20ft sensor / 5Deg F Differential</b>  |
| <b>A70GA-2C</b> | <b>Two Circuit Control / 6in sensor / 3 to 30 Deg F Differential / Use WEL14A-602R immersion well as needed</b> |
| <b>A70HA-1C</b> | <b>Two Circuit Control / 20ft sensor / Manual Reset</b>   |
| <b>A70HA-2C</b> | <b>Two Circuit Control / 6in sensor / Manual Reset / Use WEL14A-602R immersion well as needed</b>               |

### PRESSURE SWITCH - DIFFERENTIAL PRESSURE

|                 |  |
|-----------------|--|
| <b>P32AC-2C</b> | <b>SPDT / 0.15 to 12 inWC / Adjustable Setpt / Mounting Bracket Included BKT229-1R</b>     |
| <b>P32AF-2C</b> | <b>SPDT / 0.05 to 5 inWC / Adjustable Setpt / Mounting Bracket Included BKT229-1R</b>      |
| <b>P74EA-8C</b> | <b>SPDT / 2 to 26 PSI Adjustable / 3.5 Fixed Diff / 36 in. Cap. With 1/4 in. Flare Nut</b> |
| <b>P74FA-1C</b> | <b>SPDT / 8 to 60 PSI Adjustable / 1.5 Fixed Diff / 1/4 in. Male Flare</b>                 |
| <b>P74FA-5C</b> | <b>SPDT / 8 to 60 PSI Adjustable / 1.5 Fixed Diff / 1/4 in. FNPT</b>                       |

### PRESSURE SENSOR - DIFFERENTIAL PRESSURE

|           |  |
|-----------|--|
| PWLX04S # | Multi Range 10/20/50/100 PSI - 5V/10V OUTPUT |
|-----------|--|

### PRESSURE ELEMENTS

|                   |   |
|-------------------|---|
| P499VAP-101K      | 1/8 in. 27 NPT External Thread / 0 to 100 PSI Range / 0 to 10 VDC Output / 6-1/2 ft (2 m) wire harness            |
| P499VCP-101K      | 1/4 in. SAE 45° Flare Internal Thread / 0 to 100 PSI Range / 0 to 10 VDC Output / 6-1/2 ft (2 m) wire harness     |
| P499RAPS100K      | 1/8 in. 27 NPT External Thread / -10 to 100 PSI Range / .5 to 4.5 VDC Output / 6-1/2 ft (2 m) wire harness        |
| P499RCPs100K      | 1/4 in. SAE 45° Flare Internal Thread / -10 to 100 PSI Range / .5 to 4.5 VDC Output / 6-1/2 ft (2 m) wire harness |
| <b>PXPLX01S #</b> | <b>Multi Range / Multi Output / LED Display / Panel Mount</b>   |
| <b>PXDLX02S #</b> | <b>Multi Range / Multi Output / LED Display / Duct Mount 8in Probe</b>  |

# Non JCI Item

### EP (ELECTRIC to PNEUMATIC) DEVICES

|                   |  |
|-------------------|--|
| <b>EP3031S2 #</b> | <b>Multi Range / Multi Output / LED Display / 0-25PSI Control Range / Manual Mode / Panel Mount</b>                                  |
| <b>V11HGA-100</b> | <b>24V / ON-OFF / 1/4 in. Barb Connections in Common Port and Normally Closed Port; Normally Open Port is 1/8 in. NPT (Internal)</b> |

# Non JCI Item