



Appendix A

Field Wire

| | | |
|-----------------|--|---------------------------|
| 33242106 | 22/1.5 Pair Stranded / Shielded / Plenum / 1000' Reel in a Box / Blue | JCI BACnet / N2 |
| 33282107 | 22/2 Pair Stranded / Shielded / Plenum / 1000' Reel in a Box / Brown | SA BUS |
| 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 |
| 31146112 | 18/2 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural | Input & Output |
| 31142112 | 18/2 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural | Input & Output |
| 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 |
| 31266112 | 18/3 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural | Input & Output |
| 31262112 | 18/3 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural | Input & Output |
| 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 |
| 31156112 | 18/4 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural | Input & Output |
| 31152112 | 18/4 Stranded / Unshielded / Plenum / 1000' Reel in a Box / Natural | Input & Output |
| 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 |
| 31176112 | 18/6 Stranded / Unshielded / Plenum / 500' Reel in a Box / Natural | Input & Output |
| 31172112 | 18/6 Stranded / Unshielded / Plenum / 1000' Reel / Natural | Input & Output |
| 31172110 | 18/8 Stranded / Unshielded / Plenum / 1000' Reel / Purple | Input & Output |
| 31172112 | 18/8 Stranded / Unshielded / Plenum / 1000' Reel / Natural | Input & Output |

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

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

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 F

Variable Speed Drives Series II

| | | |
|------------------------|------------|--|
| VS3D7210B-S0000 | 230 | VSD II, 3/4Hp (0.75 kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS4D8210B-S0000 | 230 | VSD II, 1Hp (1.1kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS6D6210B-S0000 | 230 | VSD II, 1.5Hp (1.1kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS8D0210B-S0000 | 230 | VSD II, 2Hp (1.5kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS011210B-S0000 | 230 | VSD II, 3Hp (2.2kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS012210B-S0000 | 230 | VSD II, 4Hp (3kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS018210B-S0000 | 230 | VSD II, 5Hp (4kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS024210B-S0000 | 230 | VSD II, 7.5Hp (5.5kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS031210B-S0000 | 230 | VSD II, 10Hp (7.5kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS048210B-S0000 | 230 | VSD II, 15Hp (11kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS062210B-S0000 | 230 | VSD II, 20Hp (15kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS075210B-S0000 | 230 | VSD II, 25Hp (18.5kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS088210B-S0000 | 230 | VSD II, 30Hp (22kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS105210B-S0000 | 230 | VSD II, 40Hp (30kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS140210B-S0000 | 230 | VSD II, 50Hp (37kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS170210B-S0000 | 230 | VSD II, 60Hp (45kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS205210B-S0000 | 230 | VSD II, 75Hp (55kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS261210B-S0000 | 230 | VSD II, 100Hp (75kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS310210B-S0000 | 230 | VSD II, 125Hp (95kW), 208-230Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| | | |
| VS3D4410B-S0000 | 480 | VSD II, 1.5Hp (1.1 kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS4D8410B-S0000 | 480 | VSD II, 2Hp (1.5kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS5D6410B-S0000 | 480 | VSD II, 3Hp (2.2kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS8D0410B-S0000 | 480 | VSD II, 4Hp (3kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS9D6410B-S0000 | 480 | VSD II, 5Hp (4kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS012410B-S0000 | 480 | VSD II, 7.5Hp (5.5kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS016410B-S0000 | 480 | VSD II, 10Hp (7.5kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS023410B-S0000 | 480 | VSD II, 15Hp (11kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS031410B-S0000 | 480 | VSD II, 20Hp (15kW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS038410B-S0000 | 480 | VSD II, 25Hp (18.5KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS046410B-S0000 | 480 | VSD II, 30Hp (22KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS061410B-S0000 | 480 | VSD II, 40Hp (30KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS072410B-S0000 | 480 | VSD II, 50Hp (37KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS087410B-S0000 | 480 | VSD II, 60Hp (45KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS105410B-S0000 | 480 | VSD II, 75Hp (55KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS140410B-S0000 | 480 | VSD II, 100Hp (75KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS170410B-S0000 | 480 | VSD II, 125Hp (90KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS205410B-S0000 | 480 | VSD II, 150Hp (110KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS261410B-S0000 | 480 | VSD II, 200Hp (132KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |
| VS310410B-S0000 | 480 | VSD II, 250Hp (160KW), 480Vac, Nema Type 1, SA Bus / BACnet / N2 Comm |

Note: Replace S0000 with L0000 for LON Comm

Note: All models shown are open drives NEMA 1 enclosures without bypass or disconnect
For models with bypass, disdisconnects, and/or NEMA 12 enclosures, see JCI catalog

Appendix G

TEMPERATURE ELEMENTS - NICKEL 1K OHM

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

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 |
| TE-6361M-1 | Duct Probe 8" / Metal |
| TE-6363P-1 | Outdoor Mount with Sun Shield / Plastic |
| TE-636S-1 | Strap-on Mount |
| TE-636AM-1 | Well Immersion Mount 6" / Metal |

WELLS

| | |
|---------------------|--|
| TE-6300W-101 | Well for 6" well immersion temperature element / Brass |
| 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 |
| HE-67N3-0N0BT | Wall Mount / Plastic / 3% Accuracy / use TE-1800-9600 Wall Plate Adapter as needed |
| HE-67N3-0N00P | Duct Probe 6.25" / Plastic / 3% Accuracy |

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

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

PRESSURE SWITCH - DIFFERENTIAL PRESSURE

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

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 |

| | |
|-------------------|--|
| PXPLX01S # | Multi Range / Multi Output / LED Display / Panel Mount |
| PXDLX02S # | Multi Range / Multi Output / LED Display / Duct Mount 8in Probe |

Non JCI Item

EP (ELECTRIC to PNEUMATIC) DEVICES

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

Non JCI Item