

DDC CONTROLLER
FX-PCG2621-0
Appendix E

OCCUPIED TIME CLOCK
FM1D14A-24
Appendix G



Two Wire as Needed



SUPPLY FAN

Two Wire as Needed



DX COOLING STAGE 1

Two Wire as Needed



DX COOLING STAGE 2

31262112 Natural (3) Appendix A



HOT WATER VALVE
VG1845CL+923GGA
Appendix B

31262102 Yellow (3) Appendix A



DAMPER ACTUATOR
M9220-GGA-3
Appendix D



DAMPER ACTUATOR
M9220-GGA-3
Appendix D

33282107 Brown (4) Appendix A



ROOM SENSOR
NS-BTB7003-0
Appendix H

31142112 Natural (2) Appendix A



OUTDOOR SENSOR
TE-6313P-1
Appendix G

31142106 Blue (2) Appendix A



MIXED AIR SENSOR
TE-6316M-1
Appendix G

31142105 Green (2) Appendix A



DISCHARGE AIR SENSOR
TE-6311M-1
Appendix G

31142102 Yellow (2) Appendix A



RETURN AIR SENSOR
TE-6311M-1
Appendix G

31142103 ORANGE (2) Appendix A



FAN MOTOR STATUS
CSD-CA1G1-1
Appendix G

31152112 NATURAL (4) Appendix A



FREEZE ALARM
A70HA-1C
Appendix G

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 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 / 3/8 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
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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

Appendix H

NS Room Sensors			Setpt or	Occ Ovrđ	Screw Term			VAV	
Temperature Only	JCI Logo	LCD Display	W/C Adjust	Button	PIR Sensor	F/C Toggle	or Mod Jack	Addressable	Balancing
NS-BTB7001-0	Yes	Yes	Setpt	Yes	No	Yes	Mod Jack	No	No
NS-BTB7001-2	No	Yes	Setpt	Yes	No	Yes	Mod Jack	No	No
NS-BTB7002-0	Yes	Yes	Setpt	Yes	No	Yes	Screw Term	No	No
NS-BTB7003-0	Yes	Yes	Setpt	Yes	No	Yes	Screw Term	Yes	No
NS-BTB7003-2	No	Yes	Setpt	Yes	No	Yes	Screw Term	Yes	No
NS-BTF7001-0	Yes	Yes	W/C	Yes	No	Yes	Mod Jack	No	No
NS-BTF7002-0	Yes	Yes	W/C	Yes	No	Yes	Screw Term	No	No
NS-BTN7001-0	Yes	No	None	No	No	No	Mod Jack	No	No
NS-BTN7001-2	No	No	None	No	No	No	Mod Jack	No	No
NS-BTN7003-0	Yes	No	None	No	No	No	Screw Term	Yes	No
NS-BTN7003-2	No	No	None	No	No	No	Screw Term	Yes	No
NS-BTP7001-0	Yes	No	W/C	Yes	No	No	Mod Jack	No	No
NS-BTP7001-2	No	No	W/C	Yes	No	No	Mod Jack	No	No
NS-BTP7002-0	Yes	No	W/C	Yes	No	No	Screw Term	No	No
NS-BTP7003-0	Yes	No	W/C	Yes	No	No	Screw Term	Yes	No
NS-BTV7001-0	Yes	Yes	Setpt	Yes	No	Yes	Mod Jack	No	Yes
NS-BTV7002-0	Yes	Yes	Setpt	Yes	No	Yes	Screw Term	No	Yes
NS-MTB7001-0	Yes	Yes	Setpt	No	Yes	Yes	Mod Jack	No	No
NS-MTB7002-0	Yes	Yes	Setpt	No	Yes	Yes	Screw Term	No	No
NS-MTL7001-0	Yes	No	None	Yes	Yes	No	Mod Jack	No	No
NS-MTL7002-0	Yes	No	None	Yes	Yes	No	Screw Term	No	No

Note: Models shown are Vertical Wallbox Mounted (120mm x 80mm). Surface Mount Models (80mm x 80mm) are available. See JCI catalog

Temperature and RH		LCD Display	Setpt or	Occ Ovrđ	Screw Term			RH Element	
	JCI Logo	RH Display	W/C Adjust	Button	PIR Sensor	F/C Toggle	or Mod Jack	Addressable	Accuracy
NS-BHB7001-0	Yes	Yes, No	Setpt	Yes	No	Yes	Mod Jack	No	3%
NS-BHB7002-0	No	Yes, No	Setpt	Yes	No	Yes	Screw Term	No	3%
NS-BHB7003-0	Yes	Yes, No	Setpt	Yes	No	Yes	Screw Term	Yes	3%
NS-BHN7001-0	Yes	None	None	No	No	No	Mod Jack	No	3%
NS-BHN7001-2	No	None	None	No	No	No	Mod Jack	No	3%
NS-BHP7001-0	Yes	None	W/C	Yes	No	No	Mod Jack	No	3%
NS-BPB7001-0	Yes	Yes, No	Setpt	Yes	No	Yes	Mod Jack	No	2%
NS-BPB7002-0	Yes	Yes, No	Setpt	Yes	No	Yes	Screw Term	No	2%
NS-BPB7003-0	Yes	Yes, No	Setpt	Yes	No	Yes	Screw Term	Yes	2%
NS-MHL7001-0	Yes	No, No	None	Yes	Yes	No	Mod Jack	No	3%
NS-MHL7002-0	Yes	No, No	None	Yes	Yes	No	Screw Term	No	3%
NS-BHR7101-0	Yes	Yes, Yes	Setpt	Yes	No	Yes	Mod Jack	No	3%
NS-BHR7103-0	Yes	Yes, Yes	Setpt	Yes	No	Yes	Screw Term	Yes	3%

Note: Models shown are vertical wallbox mounted (120mm x 80mm). Surface mount models (80mm x 80mm) are available. See JCI catalog

Note: Models with LCD and RH Display - Field selectable default display.

NS Room Sensors			Setpt or	Occ Ovrđ	Screw Term			
Motion Detection	JCI Logo	LCD Display	W/C Adjust	Button	PIR Sensor	F/C Toggle	or Mod Jack	Addressable
NS-MNN7001-0	Yes	No	None	No	Yes	No	Mod Jack	No
NS-MNN7003-0	Yes	No	None	No	Yes	No	Screw Term	Yes

Note: Models shown have no Temperature or Humidity.

Carbon Dioxide (CO2)		LCD Display	Setpt or	Occ Ovrđ	Screw Term			Addressable	Range
	JCI Logo		W/C Adjust	Button	PIR Sensor	F/C Toggle	Connection		
NS-BCN7004-0	Yes	No	None	No	No	No	Screw Term	212 to 219 0 to 2,000 PPM	
NS-BCN7004-2	No	No	None	No	No	No	Screw Term	212 to 219 0 to 2,000 PPM	

Note: Models shown are vertical wallbox mounted (120mm x 80mm). Models shown also have Modular Jack connection

NS Room Sensors			Setpt or	Occ Ovrđ	Screw Term			Addressable	Faceplate
Flush Mount	JCI Logo	LCD Display	W/C Adjust	Button	PIR Sensor	F/C Toggle	or Mod Jack		
NS-FTN7003-0	Yes	No	None	No	No	No	Screw Term	200 to 203	L14mm x 70mm
NS-FTN7003-2	No	No	None	No	No	No	Screw Term	200 to 203	L14mm x 70mm

Note: Models shown have a temperature range of 32F to 104F.

Sensors Duct Probe		LCD Display	Setpt or	Occ Ovrđ	Screw Term			Addressable	Probe length
	JCI Logo		W/C Adjust	Button	PIR Sensor	F/C Toggle	or Mod Jack		
NS-DTN7043-0	Yes	No	None	No	No	No	Screw Term	204 to 211 4"	
NS-DTN7083-0	Yes	No	None	No	No	No	Screw Term	204 to 211 8"	

Note: Models shown have a 10ft wiring Lead Included.