

## NS Series Network Sensors Catalog Page (Continued)

### Selection Charts

#### Network Zone Sensor Ordering Information—Temperature Only Models (Part 1 of 2)

| Product Code Number       | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display | Temperature Adjustment: Setpoint Dial (Set), Warmer/Cooler Dial (W/C), or Setpoint Push-buttons (PB) <sup>1</sup> | Occupancy Override <sup>2</sup> Button, PIR Occupancy Sensor | °F/°C Scale Toggle | Fan Control     | Screw Terminals (ST) or Modular Jack (MJ) | Address Switches | VAV Balancing Feature |
|---------------------------|---------------------------|---|-----------------------|-------------|---|--|--------------------|-----------------|---|------------------|-----------------------|
| NS-ATA7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | No              | MJ  | No               | No                    |
| NS-ATA7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-ATA7002-3 <sup>3</sup> | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-ATA7003-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | No              | ST  | Yes              | No                    |
| NS-ATA7004-2              | 80 x 80                   | SM  | No                    | Yes         | Set   | Yes, No  | No                 | No              | ST, MJ                                    | Yes              | No                    |
| NS-ATB7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-ATB7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-ATB7003-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | ST  | Yes              | No                    |
| NS-ATC7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | Yes             | MJ  | No               | No                    |
| NS-ATC7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | No                 | Yes             | ST  | No               | No                    |
| NS-ATC7005-2              | 80 x 80                   | SM  | No                    | Yes         | Set   | Yes, No  | No                 | Yes             | ST, MJ                                    | No               | No                    |
| NS-ATD7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | Yes             | MJ  | No               | No                    |
| NS-ATD7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | Yes             | ST  | No               | No                    |
| NS-ATF7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | W/C   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-ATF7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | W/C   | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-ATN7001-0              | 80 x 80                   | SM  | Yes                   | No          | N/A   | No, No   | No                 | No              | MJ  | No               | No                    |
| NS-ATN7001-2              | 80 x 80                   | SM  | No                    | No          | N/A   | No, No   | No                 | No              | MJ  | No               | No                    |
| NS-ATN7003-0              | 80 x 80                   | SM  | Yes                   | No          | N/A   | No, No   | No                 | No              | ST  | Yes              | No                    |
| NS-ATN7003-2              | 80 x 80                   | SM  | No                    | No          | N/A   | No, No   | No                 | No              | ST  | Yes              | No                    |
| NS-ATN7004-2              | 80 x 80                   | SM  | No                    | No          | N/A   | No, No   | No                 | No              | ST, MJ                                    | Yes              | No                    |
| NS-ATP7001-0              | 80 x 80                   | SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | MJ  | No               | No                    |
| NS-ATP7001-2              | 80 x 80                   | SM  | No                    | No          | W/C   | Yes, No  | No                 | No              | MJ  | No               | No                    |
| NS-ATP7002-0              | 80 x 80                   | SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-ATP7002-2              | 80 x 80                   | SM  | No                    | No          | W/C   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-ATP7003-0              | 80 x 80                   | SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | ST  | Yes              | No                    |
| NS-ATP7003-2              | 80 x 80                   | SM  | No                    | No          | W/C   | Yes, No  | No                 | No              | ST  | Yes              | No                    |
| NS-ATV7001-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No <sup>4</sup> | MJ  | No               | Yes                   |
| NS-ATV7002-0              | 80 x 80                   | SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No <sup>4</sup> | ST  | No               | Yes                   |
| NS-BTB7001-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTB7001-2              | 120 x 80                  | WB, SM  | No                    | Yes         | Set   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTB7001-3 <sup>3</sup> | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTB7002-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-BTB7003-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No              | ST  | Yes              | No                    |
| NS-BTB7003-2              | 120 x 80                  | WB, SM  | No                    | Yes         | Set   | Yes, No  | Yes                | No              | ST  | Yes              | No                    |
| NS-BTF7001-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | W/C   | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTF7002-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | W/C   | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-BTJ7001-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTJ7001-2              | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, No  | Yes                | No              | MJ  | No               | No                    |
| NS-BTJ7002-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-BTJ7002-2              | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, No  | Yes                | No              | ST  | No               | No                    |
| NS-BTJ7003-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, No  | Yes                | No              | ST  | Yes              | No                    |
| NS-BTJ7003-2              | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, No  | Yes                | No              | ST  | Yes              | No                    |
| NS-BTK7001-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, No  | Yes                | Yes             | MJ  | No               | No                    |
| NS-BTK7001-2              | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, No  | Yes                | Yes             | MJ  | No               | No                    |
| NS-BTK7002-0              | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, No  | Yes                | Yes             | ST  | No               | No                    |
| NS-BTK7002-2              | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, No  | Yes                | Yes             | ST  | No               | No                    |
| NS-BTL7003-0              | 120 x 80                  | WB, SM  | Yes                   | No          | N/A   | Yes, No  | No                 | No              | ST  | Yes              | No                    |
| NS-BTN7001-0              | 120 x 80                  | WB, SM  | Yes                   | No          | N/A   | No, No   | No                 | No              | MJ  | No               | No                    |
| NS-BTN7001-2              | 120 x 80                  | WB, SM  | No                    | No          | N/A   | No, No   | No                 | No              | MJ  | No               | No                    |
| NS-BTN7003-0              | 120 x 80                  | WB, SM  | Yes                   | No          | N/A   | No, No   | No                 | No              | ST  | Yes              | No                    |

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### Network Zone Sensor Ordering Information—Temperature Only Models (Part 2 of 2)

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display | Temperature Adjustment: Setpoint Dial (Set), Warmer/Cooler Dial (W/C), or Setpoint Push-buttons (PB) <sup>1</sup> | Occupancy Override <sup>2</sup> Button, PIR Occupancy Sensor | °F/°C Scale Toggle | Fan Control     | Screw Terminals (ST) or Modular Jack (MJ) | Address Switches | VAV Balancing Feature |
|---------------------|---------------------------|---|-----------------------|-------------|---|--|--------------------|-----------------|---|------------------|-----------------------|
| NS-BTN7003-2        | 120 x 80                  | WB, SM  | No                    | No          | N/A   | No, No   | No                 | No              | ST  | Yes              | No                    |
| NS-BTP7001-0        | 120 x 80                  | WB, SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | MJ  | No               | No                    |
| NS-BTP7001-2        | 120 x 80                  | WB, SM  | No                    | No          | W/C   | Yes, No  | No                 | No              | MJ  | No               | No                    |
| NS-BTP7002-0        | 120 x 80                  | WB, SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-BTP7002-2        | 120 x 80                  | WB, SM  | No                    | No          | W/C   | Yes, No  | No                 | No              | ST  | No               | No                    |
| NS-BTP7003-0        | 120 x 80                  | WB, SM  | Yes                   | No          | W/C   | Yes, No  | No                 | No              | ST  | Yes              | No                    |
| NS-BTV7001-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No <sup>4</sup> | MJ  | No               | Yes                   |
| NS-BTV7002-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, No  | Yes                | No <sup>4</sup> | ST  | No               | Yes                   |
| NS-MTB7001-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, Yes   | Yes                | No              | MJ  | No               | No                    |
| NS-MTB7002-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | Set   | Yes, Yes   | Yes                | No              | ST  | No               | No                    |
| NS-MTB7004-2        | 120 x 80                  | WB, SM  | No                    | Yes         | Set   | Yes, Yes   | Yes                | No              | ST, MJ                                    | Yes              | No                    |
| NS-MTJ7001-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, Yes   | Yes                | No              | MJ  | No               | No                    |
| NS-MTJ7001-2        | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, Yes   | Yes                | No              | MJ  | No               | No                    |
| NS-MTJ7002-0        | 120 x 80                  | WB, SM  | Yes                   | Yes         | PB  | Yes, Yes   | Yes                | No              | ST  | No               | No                    |
| NS-MTJ7002-2        | 120 x 80                  | WB, SM  | No                    | Yes         | PB  | Yes, Yes   | Yes                | No              | ST  | No               | No                    |
| NS-MTL7001-0        | 120 x 80                  | WB, SM  | Yes                   | No          | N/A   | Yes, Yes   | No                 | No              | MJ  | No               | No                    |
| NS-MTL7002-0        | 120 x 80                  | WB, SM  | Yes                   | No          | N/A   | Yes, Yes   | No                 | No              | ST  | No               | No                    |
| NS-MTN7004-2        | 120 x 80                  | WB, SM  | No                    | No          | N/A   | No, Yes  | No                 | No              | ST, MJ                                    | Yes              | No                    |

1. Use the setpoint dial or pushbuttons to adjust the absolute temperature setpoint.
2. An Occupancy Override button is available on NS-xxP and NS-xxL models. Other models allow Occupancy Override through the setpoint adjustment interface.
3. These models feature a black enclosure.
4. In the VAV balancing models, the fan control button is replaced by a light bulb button used in the VAV balancing process.

### Network Zone Sensor Ordering Information—Temperature and Humidity Models without RH Display (Part 1 of 2)

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display, RH Display | Humidity Element Accuracy | Temperature Adjustment: Setpoint Dial (Set) or Warmer/Cooler Dial (W/C) | Occupancy Override <sup>1</sup> Button, PIR Occupancy Sensor | °F/°C Scale Toggle | Screw Terminals (ST) or Modular Jack (MJ) | Address Switches |
|---------------------|---------------------------|---|-----------------------|-------------------------|---------------------------|---|--|--------------------|---|------------------|
| NS-AHA7001-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | No                 | MJ  | No               |
| NS-AHA7002-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | No                 | ST  | No               |
| NS-AHA7004-2        | 80 x 80                   | SM  | No                    | Yes, No                 | 3%                        | Set   | Yes, No  | No                 | ST, MJ                                    | Yes              |
| NS-AHB7001-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | MJ  | No               |
| NS-AHB7002-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | ST  | No               |
| NS-AHB7003-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | ST  | Yes              |
| NS-AHN7001-0        | 80 x 80                   | SM  | Yes                   | None                    | 3%                        | N/A   | No, No   | No                 | MJ  | No               |
| NS-AHN7001-2        | 80 x 80                   | SM  | No                    | None                    | 3%                        | N/A   | No, No   | No                 | MJ  | No               |
| NS-AHN7003-0        | 80 x 80                   | SM  | Yes                   | None                    | 3%                        | N/A   | No, No   | No                 | ST  | Yes              |
| NS-AHN7004-2        | 80 x 80                   | SM  | No                    | None                    | 3%                        | N/A   | No, No   | No                 | ST, MJ                                    | Yes              |
| NS-AHP7001-0        | 80 x 80                   | SM  | Yes                   | None                    | 3%                        | W/C   | Yes, No  | No                 | MJ  | No               |
| NS-APA7001-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | No                 | MJ  | No               |
| NS-APA7002-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | No                 | ST  | No               |
| NS-APB7001-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | MJ  | No               |
| NS-APB7002-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | ST  | No               |
| NS-APB7003-0        | 80 x 80                   | SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | ST  | Yes              |
| NS-BHB7001-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | MJ  | No               |
| NS-BHB7002-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | ST  | No               |
| NS-BHB7003-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 3%                        | Set   | Yes, No  | Yes                | ST  | Yes              |
| NS-BHN7001-0        | 120 x 80                  | WB, SM  | Yes                   | None                    | 3%                        | N/A   | No, No   | No                 | MJ  | No               |
| NS-BHN7001-2        | 120 x 80                  | WB, SM  | No                    | None                    | 3%                        | N/A   | No, No   | No                 | MJ  | No               |
| NS-BHN7003-0        | 120 x 80                  | WB, SM  | Yes                   | None                    | 3%                        | N/A   | No, No   | No                 | ST  | Yes              |
| NS-BHP7001-0        | 120 x 80                  | WB, SM  | Yes                   | None                    | 3%                        | W/C   | Yes, No  | No                 | MJ  | No               |
| NS-BHP7003-0        | 120 x 80                  | WB, SM  | Yes                   | None                    | 3%                        | W/C   | Yes, No  | No                 | ST  | Yes              |
| NS-BPB7001-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | MJ  | No               |

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### Network Zone Sensor Ordering Information—Temperature and Humidity Models without RH Display (Part 2 of 2)

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display, RH Display | Humidity Element Accuracy | Temperature Adjustment: Setpoint Dial (Set) or Warmer/Cooler Dial (W/C) | Occupancy Override <sup>1</sup> Button, PIR Occupancy Sensor | °F/°C Scale Toggle | Screw Terminals (ST) or Modular Jack (MJ) | Address Switches |
|---------------------|---------------------------|---|-----------------------|-------------------------|---------------------------|---|--|--------------------|---|------------------|
| NS-BPB7002-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | ST  | No               |
| NS-BPB7003-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, No                 | 2%                        | Set   | Yes, No  | Yes                | ST  | Yes              |
| NS-MHB7004-2        | 120 x 80                  | WB, SM  | No                    | Yes, No                 | 3%                        | Set   | Yes, Yes   | Yes                | ST, MJ                                    | Yes              |
| NS-MHL7001-0        | 120 x 80                  | WB, SM  | Yes                   | No, No                  | 3%                        | N/A   | Yes, Yes   | No                 | MJ  | No               |
| NS-MHL7002-0        | 120 x 80                  | WB, SM  | Yes                   | No, No                  | 3%                        | N/A   | Yes, Yes   | No                 | ST  | No               |
| NS-MHN7004-2        | 120 x 80                  | WB, SM  | No                    | None                    | 3%                        | N/A   | No, Yes  | No                 | ST, MJ                                    | Yes              |

1. An Occupancy Override button is available on NS-xxP and NS-xxL models. Other models allow Occupancy Override through the setpoint adjustment interface.

### Network Zone Sensor Ordering Information—Temperature and Humidity Models with Temperature or RH Display (Field-Selectable Default Display)

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display, RH Display | Humidity Element Accuracy | Temperature Adjustment: Setpoint Dial (Set) or Setpoint Pushbuttons (PB) <sup>1</sup> | Occupancy Override <sup>2</sup> | °F/°C Scale Toggle | Screw Terminals (ST) or Modular Jack (MJ) | Address Switches |
|---------------------|---------------------------|---|-----------------------|-------------------------|---------------------------|---|---------------------------------|--------------------|---|------------------|
| NS-AHR7101-0        | 80 x 80                   | SM  | Yes                   | Yes, Yes                | 3%                        | Set   | Yes                             | Yes                | MJ  | No               |
| NS-AHR7102-0        | 80 x 80                   | SM  | Yes                   | Yes, Yes                | 3%                        | Set   | Yes                             | Yes                | ST  | No               |
| NS-AHR7103-0        | 80 x 80                   | SM  | Yes                   | Yes, Yes                | 3%                        | Set   | Yes                             | Yes                | ST  | Yes              |
| NS-APR7101-0        | 80 x 80                   | SM  | Yes                   | Yes, Yes                | 2%                        | Set   | Yes                             | Yes                | MJ  | No               |
| NS-APR7102-0        | 80 x 80                   | SM  | Yes                   | Yes, Yes                | 2%                        | Set   | Yes                             | Yes                | ST  | No               |
| NS-BHM7101-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | MJ  | No               |
| NS-BHM7101-2        | 120 x 80                  | WB, SM  | No                    | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | MJ  | No               |
| NS-BHM7102-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | ST  | No               |
| NS-BHM7102-2        | 120 x 80                  | WB, SM  | No                    | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | ST  | No               |
| NS-BHM7103-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | ST  | Yes              |
| NS-BHM7103-2        | 120 x 80                  | WB, SM  | No                    | Yes, Yes                | 3%                        | PB  | Yes                             | Yes                | ST  | Yes              |
| NS-BHR7101-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, Yes                | 3%                        | Set   | Yes                             | Yes                | MJ  | No               |
| NS-BHR7103-0        | 120 x 80                  | WB, SM  | Yes                   | Yes, Yes                | 3%                        | Set   | Yes                             | Yes                | ST  | Yes              |

1. Use the setpoint dial or pushbuttons to adjust the absolute temperature setpoint.

2. An Occupancy Override button is available on NS-xxP and NS-xxL models. Other models allow Occupancy Override through the setpoint adjustment interface.

### Network Zone Sensor Ordering Information—Motion Detection Only Models (No Temperature or Humidity Sensing)

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB), or Surface-Mounted (SM) | Johnson Controls Logo | LCD Display | PIR Occupancy Sensor | Screw Terminals (ST), or Modular Jack (MJ) | Address Switches |
|---------------------|---------------------------|--|-----------------------|-------------|----------------------|--|------------------|
| NS-MNN7001-0        | 120 x 80                  | WB, SM   | Yes                   | No          | Yes                  | MJ   | No               |
| NS-MNN7003-0        | 120 x 80                  | WB, SM   | Yes                   | No          | Yes                  | ST   | Yes              |
| NS-MNN7004-2        | 120 x 80                  | WB, SM   | No                    | No          | Yes                  | ST, MJ                                     | Yes              |

### Network Zone Sensor Ordering Information—CO<sub>2</sub> Models

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB), or Surface-Mounted (SM) | LCD Display | CO <sub>2</sub> Measurement Range | Johnson Controls Logo | Screw Terminals (ST), or Modular Jack (MJ) | Sensor Addressing       |
|---------------------|---------------------------|--|-------------|-----------------------------------|-----------------------|--|-------------------------|
| NS-BCN7004-0        | 120 x 80                  | WB, SM   | No          | 0 to 2,000 ppm                    | Yes                   | ST, MJ                                     | DIP Switch (212 to 219) |
| NS-BCN7004-2        | 120 x 80                  | WB, SM   | No          | 0 to 2,000 ppm                    | No                    | ST, MJ                                     | DIP Switch (212 to 219) |

### Network Zone Sensor Ordering Information—Flush-Mount Temperature Only Models

| Product Code Number | Faceplate Dimensions, Height x Width   | Mounting    | LCD Display | Temperature Measurement Range  | Johnson Controls Logo | Terminations         | Sensor Addressing       |
|---------------------|--|-------------|-------------|--------------------------------|-----------------------|----------------------|-------------------------|
| NS-FTN7003-0        | 4-1/2 in. x 2-3/4 in. (114 mm x 70 mm) | Flush-Mount | No          | 32.0°F/0.0°C to 104.0°F/40.0°C | Yes                   | Screw Terminal Block | DIP Switch (200 to 203) |
| NS-FTN7003-2        | 4-1/2 in. x 2-3/4 in. (114 mm x 70 mm) | Flush-Mount | No          | 32.0°F/0.0°C to 104.0°F/40.0°C | No                    | Screw Terminal Block | DIP Switch (200 to 203) |

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### Network Discharge Air Sensor Ordering Information

| Product Code Number | Dimensions, Height x Width x Depth               | Johnson Controls Logo | Temperature Probe Length | 10 ft (305 cm) Wiring Lead Included | Terminations         | Sensor Addressing       |
|---------------------|--|-----------------------|--------------------------|-------------------------------------|----------------------|-------------------------|
| NS-DTN7043-0        | 3 in. x 3 in. x 2 in.<br>(76 mm x 76 mm x 51 mm) | Yes                   | 4 in. (102 mm)           | Yes                                 | Screw Terminal Block | DIP Switch (204 to 211) |
| NS-DTN7043-2        | 3 in. x 3 in. x 2 in.<br>(76 mm x 76 mm x 51 mm) | No                    | 4 in. (102 mm)           | Yes                                 | Screw Terminal Block | DIP Switch (204 to 211) |
| NS-DTN7083-0        | 3 in. x 3 in. x 2 in.<br>(76 mm x 76 mm x 51 mm) | Yes                   | 8 in. (203 mm)           | Yes                                 | Screw Terminal Block | DIP Switch (204 to 211) |
| NS-DTN7083-2        | 3 in. x 3 in. x 2 in.<br>(76 mm x 76 mm x 51 mm) | No                    | 8 in. (203 mm)           | Yes                                 | Screw Terminal Block | DIP Switch (204 to 211) |

### Network Sensors with Fault Code Capability Ordering Information (Title 24 Models for Economizer Fault Detection Diagnostics [FDD])

| Product Code Number | Size (mm), Height x Width | Vertical Wallbox-Mounted (WB) | LCD Display, °F/°C Scale Toggle | Screw Terminals | Address Switches | Temperature Adjustment: Setpoint (Set) or Warmer/Cooler Dial (W/C) | Johnson Controls Logo | VAV Balancing Feature |
|---------------------|---------------------------|-------------------------------|---------------------------------|-----------------|------------------|--|-----------------------|-----------------------|
| NS-ATB7F03-0        | 80 x 80                   | Yes                           | Yes, Yes                        | Yes             | Yes              | Set  | Yes                   | No                    |
| NS-ATB7F03-1        | 80 x 80                   | Yes                           | Yes, Yes                        | Yes             | Yes              | Set  | No                    | No                    |
| NS-BTB7F03-0        | 80 x 120                  | Yes                           | Yes, Yes                        | Yes             | Yes              | Set  | Yes                   | No                    |
| NS-BTB7F03-1        | 80 x 120                  | Yes                           | Yes, Yes                        | Yes             | Yes              | Set  | No                    | No                    |

### NS Sensors with Fault Code Capability Error Codes

The fault indication comes through the Network Sensor Bus when a Network Sensor is used in the Zone. The LCD indicates the code number for all the required state of California Title 24 economizer fault conditions.

| Display Text | California Title 24 Economizer Fault Condition | Possible Problem   |
|--------------|--|--|
| EF1          | Air temperature sensor failure/fault           | Problem with one of the air temperature sensors. Check Outdoor Air, Return Air, or Supply Air sensors.       |
| EF5          | Not economizing when it should                 | The economizer is not using outdoor air when it should.  |
| EF6          | Economizing when it should                     | The economizer is allowing outdoor air inside when the conditions are not suitable for economizer operation. |
| EF8          | Damper not modulating                          | The economizer damper is not able to modulate properly. Check damper, linkage to actuator, or the actuator.  |
| EF9          | Excess outdoor air                             | The economizer is allowing excess outdoor air inside.  |