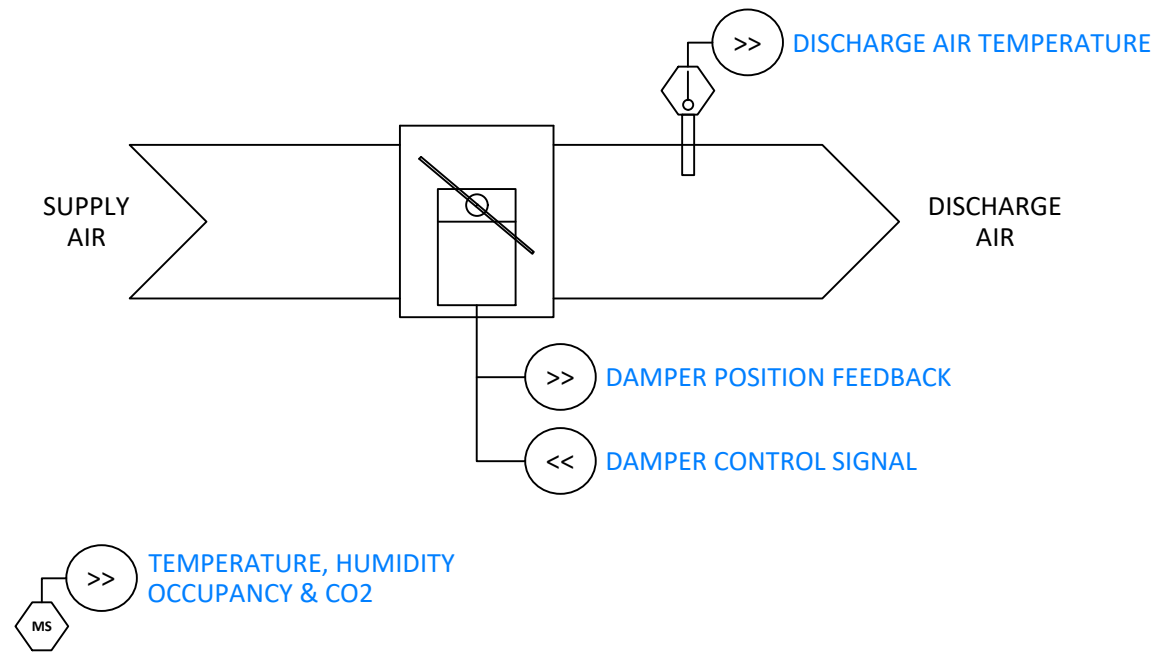


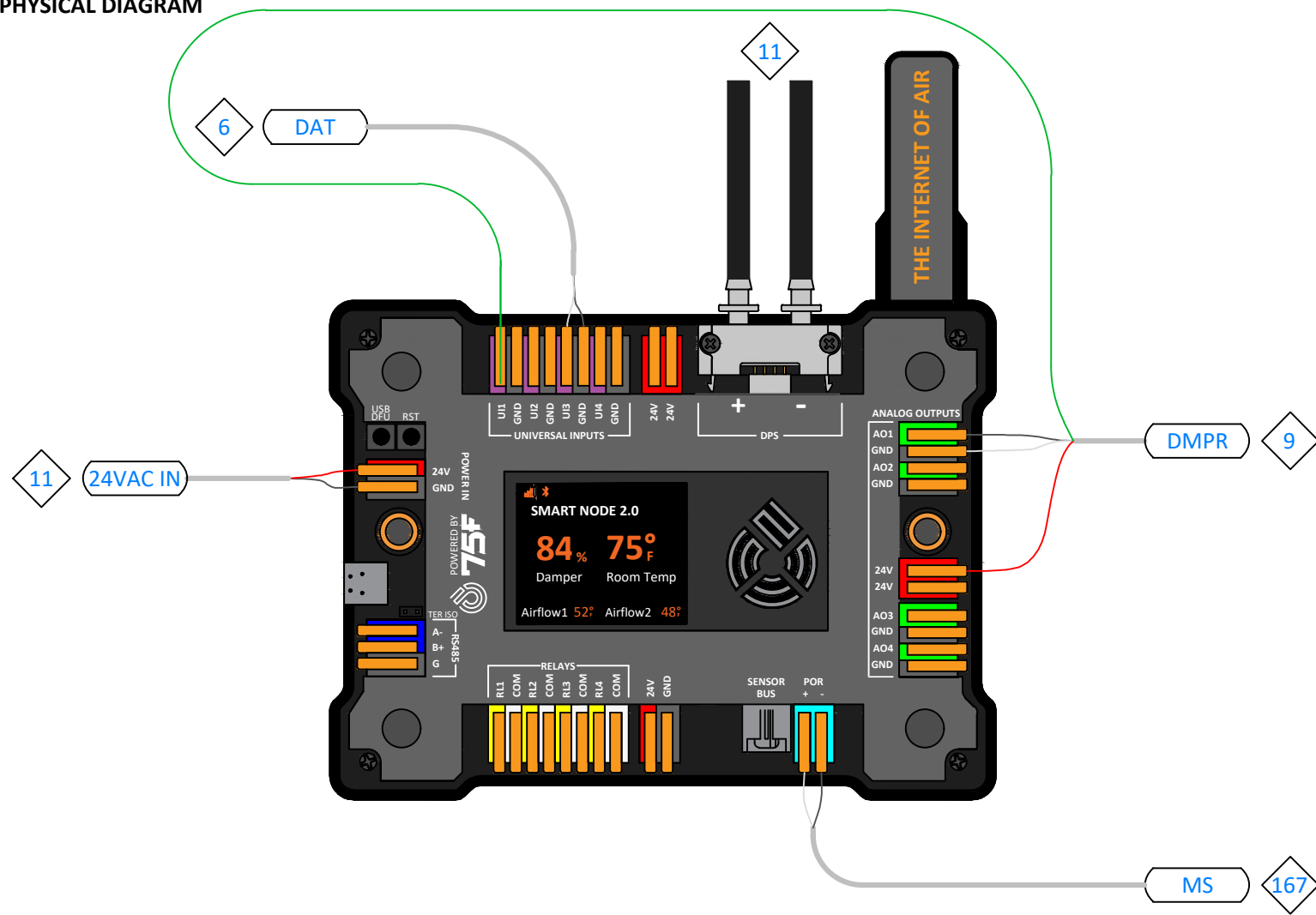
LOGICAL DIAGRAM



POINTS LIST

| SMART NODE | | | | | |
|---------------------------|------------|----------|---------------------------------|-----|--------------|
| DESCRIPTION | POINT | TAG | DEVICE RANGE | MFG | PART # |
| DAMPER POSITION FEEDBACK | UI1 | DMPR | 0-10VDC FEEDBACK = 0-100% OPEN | 75F | 7X-AT-C6X-X |
| SPARE | UI2 | | DIGITAL / 10K TYPE II / 0-10VDC | | |
| DISCHARGE AIR TEMPERATURE | UI3 | DAT | °F (10K TYPE II) | 75F | 3X-SE-C29X-X |
| SPARE | UI4 | | °F (10K TYPE II) | | |
| DAMPER CONTROL SIGNAL | AO1 | DMPR | 0-10VDC SIGNAL = 0-100% OPEN | 75F | 7X-AT-C6X-X |
| SPARE | AO2 | | 0-10VDC / 4-20mA | | |
| SPARE | AO3 | | 0-10VDC / 4-20mA | | |
| SPARE | AO4 | | 0-10VDC / 4-20mA | | |
| SPARE | RELAY 1 | | DRY CONTACT | | |
| SPARE | RELAY 2 | | DRY CONTACT | | |
| SPARE | RELAY 3 | | DRY CONTACT | | |
| SPARE | RELAY 4 | | DRY CONTACT | | |
| TEMP, HUMIDITY, OCC & CO2 | POR | MS | 2-WIRE POR | 75F | 7X-SE-C77X-X |
| SPARE | SENSOR BUS | | 3-WIRE SENSOR BUS | | |
| SPARE | RS-485 | | 3-WIRE RS-485 | | |
| 24VAC IN/OUT | POWER IN | 24VAC IN | 24VAC | | |

PHYSICAL DIAGRAM



SEQUENCE OF OPERATION

THE CONTROLLER MODULATES THE SUPPLY AIR DAMPER TO MAINTAIN THE ROOM TEMPERATURE AT SETPOINT ACCORDING TO ASHRAE GUIDELINE 36.

COOLING

WHEN THE SYSTEM IS COOLING AND THE ZONE ALSO REQUIRES COOLING, THE DAMPER WILL MODULATE FROM ITS MINIMUM POSITION WHEN THERE IS NO LOAD TO MAXIMUM POSITION WHEN THE LOAD IS 100%.

WHEN THE SYSTEM IS IN HEATING AND THE ZONE REQUIRES HEATING, THE DAMPER WILL MODULATE TO NEAR ITS MAXIMUM POSITION UNTIL THE ZONE IS SATISFIED. ONCE ANY ZONE REQUIRES COOLING, THE SYSTEM WILL STOP PROVIDING HEAT AND WILL SWITCH BACK INTO COOLING.

75F COMMISSIONING NOTES

- EACH OF THE ZONE CONTROLS SHOULD BE PAIRED AS A 'VAV No REHEAT - NO FAN' ZONE PROFILE.
- CONFIGURE:

| | | |
|---|-------------------------------|---------------------------------------|
| DAMPER TYPE: 0-10V | SIZE: DETERMINED BY INSTALLER | SHAPE: DETERMINED BY INSTALLER |
| REHEAT TYPE: NO REHEAT | | ZONE PRIORITY: NORMAL |
| AUTO FORCE OCCUPIED: DISABLED (UNLESS REQUIRED) | | AUTO AWAY: DISABLED (UNLESS REQUIRED) |
| ENABLE CFM CONTROL: ENABLED | | K-FACTOR: DETERMINED BY INSTALLER |
- SET ALL CFM SETPOINTS PER PROJECT SPECIFICATION

Drawing Notes:

- ①
- ②
- ③



Project Name:
75F DESIGN MASTER
REV. 1.4

Project Address:

DB: **CB:** **Page:** **of**

Drawing: VAV (NO REHEAT) ZONE WITH MS - SNV2