|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **AHU-4** |  |  |
| **AHU Number** | **Data Type** | **Range** | **Unit** | **Input/Output** |
| ??/Zone Temperature | real | n/a | fahrenheit | input |
| ??//Static Pressure | real | n/a |  | input |
| Return Air Temperature | real | n/a | fahrenheit | input |
| Supply Air Temperature | real | n/a | fahrenheit | input |
| Exhaust Air Temperature | real | n/a | fahrenheit | input |
| Outside Air Temperature | real | -20, 160 | fahrenheit | input |
| Smoke Detector | bit | n/a |  | input |
| Outside CO2 | real | 0, 2000 | parts per million | input |
| Return Air CO2 | real | 0, 2000 | parts per million | input |
| Spare (EF001) | real | n/a |  | output |
| Hi Static | bit | n/a |  | input |
| Duct Static Pressure | real | n/a | In H20 | input |
| Mixed Air Temperature | real | n/a | fahrenheit | input |
| OSA CFM | real | 0, 60000 | fahrenheit | input |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **VAV** |  |  |
| **VAV Number** | **Type** | **Range** | **Unit** | **I/O** |
| Chill Water Valve | real | 0,100 | percent | output |
| Flow Input | real | na | cubic feet per min | input |
| Misc Spare Input | real | na | fahrenheit | input |
| Zone Temperature | real | na | fahrenheit | input |
| Discharge Temperature | real | na | fahrenheit | input |
| Condensate Detector | bit | na |  | input |
| Duct Static Pressure | real | 0, 25 | in H20 | input |
| Zone CO2 | real | 0,1000 | parts per million | input |
| Damper Position | real | 0, 100 | percent |  |
| Hot Water Value | real | 0, 100 | percent | output |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Thermafuser Reading** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Room Occupied | bit | 0-1 |  | I |
| Zone Temperature | real | na | fahrenheit | I |
| Supply Air | real | na | cubic feet per min | I |
| Airflow Feedback | real | na | cubic feet per min | I |
| CO2 Input | real | ? |  | I |
| Max Airflow | real |  | cubic feet per min |  |
| Min Airflow | real |  | cubic feet per min |  |
| Unoccupied Heating Setpoint | real | ? |  | O |
| Unoccupied Cooling Setpoint | real | ? |  | O |
| Occupied Cooling Setpoint | real | ? |  | O |
| Occupied Heating Setpoint | real | ? |  | O |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Heat Exchanger Coil Reading** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Is Hot Water Supply | bit |  |  |  |
| Coil Type | real |  |  |  |
| Water Temperature | real |  | fahrenheit |  |
| Valve Opening Percentage | real | 0, 100 | percentage |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Damper** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Damper Type | real |  |  |  |
| Input Voltage | real |  |  |  |
| Opening Percentage | real | 0, 100 | percentage |  |
| Isolation Damper | bit |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Filter** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Filter Type | real |  |  |  |
| Pre-Filter Difference Pressure | real | 0, 2.5 | In H2O | I |
| Final Filter Difference Pressure | real | 0, 2.5 | In H2O | I |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Fan Reading** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Fan Type | bit |  |  |  |
| Sup Fan Air Velocity Pressure | real | 0, 15 | ft/min | I |
| Ret Fan Air Velocity Pressure | real | 0, 10 | ft/min | I |
| RF VFD Speed | real | 0, 100 | percent | O |
| Sup Fan Status | bit | n/a |  | I |
| Ret Fan Status | bit | n/a |  | I |
| Sup VFD Fault | bit | n/a |  | I |
| Ret VFD Fault | bit | n/a |  | I |
| Hi Static Reset | bit | n/a |  | O |
| FA Return fan Shutdown | bit | n/a |  | O |
| Sup Fan VFD | bit | n/a |  | O |
| Ret Fan VFD | bit | n/a |  | O |
| Isolation Dampers | bit |  |  |  |
| Fan SS | bit | ? |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SAV(Third floor/to AHU-1&2)** |  |  |
| **Name** | **Type** | **Range** | **Unit** | **I/O** |
| Misc Spare Input | real | n/a | ? | I |
| Zone Temperature | real | n/a | fahrenheit | I |
| Discharge Temperature | real | n/a | fahrenheit | I |
| Misc Input | bit | n/a | ? |  |
| Condensate Detector | bit | n/a |  | I |
| Valve Output Percentage | real | 0, 100 | percentage |  |