BACnet Register

**BACnet Address Map**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Object name | Object\_type | Instance | Modbus Registers | Scale | Unit |
| Flow Rate | A1 | 1 | 0-1 | ×1 | m³/h,0.1m³/h,10L/h,L/h,  ukg/s,ukg/m,ukg/h,usg/s,  usg/m,usg/h,t/s,t/m,t/h |
| Flow Rate Unit | A1 | 2 | 2 | ×1 | 1-L/h,2-0.01m³/h,  3-0.1m³/h,4-m³/h,5-L/s,  6-L/m,7-m3/s,8-m3/m,  9-ukg/s,10-ukg/m,11-ukg/h,12-usg/s,13-usg/m,14-usg/h,15-t/s,16-t/m,17-t/h |
| Positive Cumulative Flow | A1 | 3 | 3-4 | ×1 |  |
| Positive Cumulative FlowUnit | A1 | 4 | 5 | ×1 | 1-L,2-0.01m3,3-0.1m3;4-m3,  5-Gal,6-10Gal,7-100Gal,  8-1ukg,9-1usg,10-1t |
| ReverseCumulative Flow | A1 | 5 | 6-7 | ×1 |  |
| ReverseCumulative FlowUnit | A1 | 6 | 8 | ×1 | 1-L,2-0.01m3,3-0.1m3;4-m3,  5-Gal,6-10Gal,7-100Gal,  8-1ukg,9-1usg,10-1t |
| Power Energy Rate | A1 | 7 | 9-10 | ×1 | kW,W,J/h,GJ/h,MJ/h,MW,Kcal,BTU,KBTU,kJ |
| Power Energy  RateUnit | A1 | 8 | 11 | ×1 | 1-W,2-0.01kW,3-0.1kW,4-kW,  5-J/h,6-GJ/h,7-MJ/h,8-MW,  9-Kcal/h,10-BTU/h,11-KBTU/h,12-kJ/h |
| HeatEnergy Total | A1 | 9 | 12-13 | ×1 | kWh,0.1kWh,0.01kWh,Mwh,GJ,MJ,Kcal,BTU,KBTU,kJ |
| Heat Energy TotalUnit | A1 | 10 | 14 | ×1 | 1-0.01kWh,2-0.1kWh,3-kWh,4- MWh,5-GJ,6-MJ, 7-1Kcal,  8-1BTU,9-1KBTU,10-1kJ |
| Cool Energy Total | A1 | 11 | 15-16 | ×1 | kWh,0.1kWh,0.01kWh,MWh,GJ,MJ,Kcal,BTU,KBTU,kJ |
| Cool Energy TotalUnit | A1 | 12 | 17 | ×1 | 1-0.01kWh;2-0.1kWh;3-kWh,4- MWh;5-GJ;6-MJ, 7-1Kcal,  8-1BTU,9-1KBTU,10-1kJ |
| Supply Temp | A1 | 13 | 18 | ×0.01 unit A |  |
| Return Temp | A1 | 14 | 19 | ×0.01 unit V |  |
| Valve Status | A1 | 15 | 20 | ×1 | Writeable we can write 0 or 1  1-Open 0-Close |
| Time | A1 | 16 | 21-23 | ×1 | Format：18:32:45  21=hour register；22=minute register；  23=Second register |
| Factory ID | A1 | 17 | 24 | ×1 |  |
| Alarm | A1 | 18 | 25 | ×1 |  |
| RSSI | A1 | 19 | 26 | ×1 | dbm |
| Pressue | A1 | 20 | 27 | ×1 | 0.01Bar,0.1Bar,1Bar,KBar |
| Pressue Unit | A1 | 21 | 28 | ×1 | 1-0.01Bar;2-0.1Bar;3-Bar;4-KBar |
| Active energy | A1 | 22 | 29-30 | ×1 | kWh |
| Reactiveenergy | A1 | 23 | 31-32 | ×1 | kWh |
| Active power | A1 | 24 | 33-34 | ×1 | kW |
| Reactive power | A1 | 25 | 36-37 | ×1 | kW |
| Voltage1 | A1 | 26 | 38 | ×1 | 0.1V,1V |
| Voltage2 | A1 | 27 | 39 | ×1 | 0.1V,1V |
| Voltage3 | A1 | 28 | 40 | ×1 | 0.1V,1V |
| Voltage Unit | A1 | 29 | 41 | ×1 | 1-0.1V;2-1V |
| Current 1 | A1 | 30 | 42 | ×1 | 0.01A,0.1A,1A |
| Current 2 | A1 | 31 | 43 | ×1 | 0.01A,0.1A,1A |
| Current 3 | A1 | 32 | 44 | ×1 | 0.01A,0.1A,1A |
| Current Unit | A1 | 33 | 45 | ×1 | 1-0.01A;2-0.1A;3-1A |
| SN# | A1 | 34 | 46-47 | N/A |  |
| Meter Type | A1 | 35 | 48 | N/A | 0xAA04 means heat meter  0xAA07 means water meter  0xAA02 means KWH meter  0xAA03 means Gas meter  0xAA01 means Reserved type |