

## Cross Reference List of Modbus Slave

Tool Modbus slave  
 Controller Genius, trunk  
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Modbus Device Address: 1  
 TCP/IP Enabled: Yes

### Coils

| Addr | EXOL Variable     | Description                                   |
|------|-------------------|---|
| 0    | HW_FastHeat       | Activate fast hot water heating (0=No, 1=Yes) |
| 1    | RegioShutDown(1)  | Room1: Mode (0=Active, 1=Off)                 |
| 2    | RegioShutDown(2)  | Room2: Mode (0=Active, 1=Off)                 |
| 3    | RegioShutDown(3)  | Room3: Mode (0=Active, 1=Off)                 |
| 4    | RegioShutDown(4)  | Room4: Mode (0=Active, 1=Off)                 |
| 5    | RegioShutDown(5)  | Room5: Mode (0=Active, 1=Off)                 |
| 6    | RegioShutDown(6)  | Room6: Mode (0=Active, 1=Off)                 |
| 7    | RegioShutDown(7)  | Room7: Mode (0=Active, 1=Off)                 |
| 8    | RegioShutDown(8)  | Room8: Mode (0=Active, 1=Off)                 |
| 9    | RegioShutDown(9)  | Room9: Mode (0=Active, 1=Off)                 |
| 10   | RegioShutDown(10) | Room10: Mode (0=Active, 1=Off)                |
| 11   | forcedCooling     | Manual cooling (0=No, 1=Yes)                  |
| 12   | HW_Legionella     | Activate legionella treatment (0=No, 1=Yes)   |
| 13   | HW_EmergencyMode  | Hot water emergency Operation (0=No, 1=Yes)   |
| 14   | PTC_function      | PTC-funcion (0=Off, 1=Yes)                    |
| 15   | PTC_EmergencyMode | PTC emergency Operation (0=No, 1=Yes)         |

### Discrete Inputs

| Addr | EXOL Variable       | Description                           |
|------|---------------------|---------------------------------------|
| 1    | RegioUo1(1)         | Room1: PTC (0=Blocked, 1=Normal)      |
| 2    | RegioUo1(2)         | Room2: PTC (0=Blocked, 1=Normal)      |
| 3    | RegioUo1(3)         | Room3: PTC (0=Blocked, 1=Normal)      |
| 4    | RegioUo1(4)         | Room4: PTC (0=Blocked, 1=Normal)      |
| 5    | RegioUo1(5)         | Room5: PTC (0=Blocked, 1=Normal)      |
| 6    | RegioUo1(6)         | Room6: PTC (0=Blocked, 1=Normal)      |
| 7    | RegioUo1(7)         | Room7: PTC (0=Blocked, 1=Normal)      |
| 8    | RegioUo1(8)         | Room8: PTC (0=Blocked, 1=Normal)      |
| 9    | RegioUo1(9)         | Room9: PTC (0=Blocked, 1=Normal)      |
| 10   | RegioUo1(10)        | Room10: PTC (0=Blocked, 1=Normal)     |
| 11   | MB_Carel_OnOff      | Heat pump status (0=Off, 1=On)        |
| 12   | MB_Carel_ChangeOver | Heat pump mode (0=Heating, 1=Cooling) |

### Holding Registers

| Addr | Scale | EXOL Variable             | Description                      |
|------|-------|---------------------------|----------------------------------|
| 0    | 10    | FixedSetPCool             | Room setpoint cooling (22-28 °C) |
| 1    | 10    | SetPointRC(1)             | Room1: Desired temp              |
| 2    | 10    | PTC_OccSetPHeat(1)        | Room1: Base setpoint (18-26°)    |
| 3    | 10    | RegioSetpointOffsetPos(1) | Room1: Setpoint adjustment (+)   |
| 4    | 10    | RegioSetpointOffsetNeg(1) | Room1: Setpoint adjustment (-)   |
| 5    | 10    | SetPointRC(2)             | Room2: Desired temp              |
| 6    | 10    | PTC_OccSetPHeat(2)        | Room2: Base setpoint (18-26°)    |
| 7    | 10    | RegioSetpointOffsetPos(2) | Room2: Setpoint adjustment (+)   |
| 8    | 10    | RegioSetpointOffsetNeg(2) | Room2: Setpoint adjustment (-)   |
| 9    | 10    | SetPointRC(3)             | Room3: Desired temp              |
| 10   | 10    | PTC_OccSetPHeat(3)        | Room3: Base setpoint (18-26°)    |
| 11   | 10    | RegioSetpointOffsetPos(3) | Room3: Setpoint adjustment (+)   |
| 12   | 10    | RegioSetpointOffsetNeg(3) | Room3: Setpoint adjustment (-)   |
| 13   | 10    | SetPointRC(4)             | Room4: Desired temp              |
| 14   | 10    | PTC_OccSetPHeat(4)        | Room4: Base setpoint (18-26°)    |

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|----|----|----------------------------|--|
| 15 | 10 | RegioSetpointOffsetPos(4)  | Room4: Setpoint adjustment (+)   |
| 16 | 10 | RegioSetpointOffsetNeg(4)  | Room4: Setpoint adjustment (-)   |
| 17 | 10 | SetPointRC(5)              | Room5: Desired temp  |
| 18 | 10 | PTC_OccSetPHeat(5)         | Room5: Base setpoint (18-26°)  |
| 19 | 10 | RegioSetpointOffsetPos(5)  | Room5: Setpoint adjustment (+)   |
| 20 | 10 | RegioSetpointOffsetNeg(5)  | Room5: Setpoint adjustment (-)   |
| 21 | 10 | SetPointRC(6)              | Room6: Desired temp  |
| 22 | 10 | PTC_OccSetPHeat(6)         | Room6: Base setpoint (18-26°)  |
| 23 | 10 | RegioSetpointOffsetPos(6)  | Room6: Setpoint adjustment (+)   |
| 24 | 10 | RegioSetpointOffsetNeg(6)  | Room6: Setpoint adjustment (-)   |
| 25 | 10 | SetPointRC(7)              | Room7: Desired temp  |
| 26 | 10 | PTC_OccSetPHeat(7)         | Room7: Base setpoint (18-26°)  |
| 27 | 10 | RegioSetpointOffsetPos(7)  | Room7: Setpoint adjustment (+)   |
| 28 | 10 | RegioSetpointOffsetNeg(7)  | Room7: Setpoint adjustment (-)   |
| 29 | 10 | SetPointRC(8)              | Room8: Desired temp  |
| 30 | 10 | PTC_OccSetPHeat(8)         | Room8: Base setpoint (18-26°)  |
| 31 | 10 | RegioSetpointOffsetPos(8)  | Room8: Setpoint adjustment (+)   |
| 32 | 10 | RegioSetpointOffsetNeg(8)  | Room8: Setpoint adjustment (-)   |
| 33 | 10 | SetPointRC(9)              | Room9: Desired temp  |
| 34 | 10 | PTC_OccSetPHeat(9)         | Room9: Base setpoint (18-26°)  |
| 35 | 10 | RegioSetpointOffsetPos(9)  | Room9: Setpoint adjustment (+)   |
| 36 | 10 | RegioSetpointOffsetNeg(9)  | Room9: Setpoint adjustment (-)   |
| 37 | 10 | SetPointRC(10)             | Room10: Desired temp   |
| 38 | 10 | PTC_OccSetPHeat(10)        | Room10: Base setpoint (18-26°)   |
| 39 | 10 | RegioSetpointOffsetPos(10) | Room10: Setpoint adjustment (+)  |
| 40 | 10 | RegioSetpointOffsetNeg(10) | Room10: Setpoint adjustment (-)  |
| 41 | 1  | FanSpeedMode               | Fanspeed mode in daytime<br>(0=Holiday, 1=Minimal, 2=Normal, 3=Party, Off)     |
| 42 | 1  | FanSpeedNightMode          | Fanspeed mode in<br>nighttime(0=Holiday, 1=Minimal, 2=Normal,<br>3=Party, Off) |
| 43 | 1  | FurnaceMode                | Furnace-mode (0=Off, 1=Step1, 2=Step2,<br>3=Step3)                             |
| 44 | 1  | forcedCoolingTime          | Manual cooling time (0-120 min)  |
| 45 | 10 | FixedSetPHeat              | Room setpoint heating (18-24 °C)   |
| 46 | 10 | HW_SetPoint                | Hot water desired temp (30-60 °C)  |
| 47 | 10 | HW_HolidaySetPoint         | Hot water desired holiday temp (30-40 °C)                                      |
| 48 | 10 | HW_EmergencySetP           | Hot water emergency temp (30-50 °C)  |
| 49 | 10 | PTC_EmergencySetP          | PTC emergency temperature (18-22 °C)   |

## Input Registers

| Addr | Scale | EXOL Variable      | Description                      |
|------|-------|--------------------|----------------------------------|
| 0    | 10    | OutDoorTemp        | AI1: Outdoor temperature         |
| 1    | 10    | SupplyTemp         | AI2: Supply temperature          |
| 2    | 10    | ExtractTemp        | AI4: Extract temperature         |
| 3    | 10    | HWTemp             | UA11: Hot water temperature      |
| 4    | 10    | AI_RunIndSupFan    | UA12: Run Indication supply fan  |
| 5    | 10    | AI_RunIndExtFan    | UA13: Run Indication extract fan |
| 6    | 10    | Ctrl_SupFan        | AO1: Supply fan output           |
| 7    | 10    | Ctrl_ExtFan        | AO2: Extract fan output          |
| 8    | 10    | Ctrl_RecircFan     | AO3: Recirculation fan output    |
| 9    | 10    | Preheater          | AO4: Preheater output            |
| 10   | 10    | RegioHeatOutput(1) | Room1: PTC heating               |
| 11   | 10    | RegioRoomTemp(1)   | Room1: Actual temperature        |
| 12   | 10    | RegioHeatOutput(2) | Room2: PTC heating               |
| 13   | 10    | RegioRoomTemp(2)   | Room2: Actual temperature        |
| 14   | 10    | RegioHeatOutput(3) | Room3: PTC heating               |
| 15   | 10    | RegioRoomTemp(3)   | Room3: Actual temperature        |
| 16   | 10    | RegioHeatOutput(4) | Room4: PTC heating               |
| 17   | 10    | RegioRoomTemp(4)   | Room4: Actual temperature        |
| 18   | 10    | RegioHeatOutput(5) | Room5: PTC heating               |
| 19   | 10    | RegioRoomTemp(5)   | Room5: Actual temperature        |
| 20   | 10    | RegioHeatOutput(6) | Room6: PTC heating               |
| 21   | 10    | RegioRoomTemp(6)   | Room6: Actual temperature        |
| 22   | 10    | RegioHeatOutput(7) | Room7: PTC heating               |
| 23   | 10    | RegioRoomTemp(7)   | Room7: Actual temperature        |

|    |    |                     |  |
|----|----|---------------------|--|
| 24 | 10 | RegioHeatOutput(8)  | Room8: PTC heating   |
| 25 | 10 | RegioRoomTemp(8)    | Room8: Actual temperature  |
| 26 | 10 | RegioHeatOutput(9)  | Room9: PTC heating   |
| 27 | 10 | RegioRoomTemp(9)    | Room9: Actual temperature  |
| 28 | 10 | RegioHeatOutput(10) | Room10: PTC heating  |
| 29 | 10 | RegioRoomTemp(10)   | Room10: Actual temperature   |
| 30 | 1  | VPac1.SummerMode    | Current HP State (0=Heating 1=Cooling)                               |
| 31 | 1  | OperationMode       | Heat pump mode (0=Winter mode, 1=Summer mode, 2=Heating and Cooling) |
| 32 | 10 | MB_Carel_Power      | Heat pump output power %   |
| 33 | 10 | SupplyTemp          | Supply air temp actual value (C°)                                    |
| 34 | 10 | PID_HP_Supply_SetP  | Supply air temp setpoint (C°)  |
| 35 | 10 | PID_HP_Room_Input   | Room temperature actual value (°C)                                   |
| 36 | 10 | PID_HP_Room_Setp    | Room temperature setpoint (°C)                                       |
| 37 | 10 | HWTTemp             | Hot water actual temp (°C)   |