KWL Pluggit

```
//
//□@author□□□Helge Klug
//□@copyright□□Copyright (c) 2018 Helge Klug
//□@version□□1.10
//
//□@see□□□
http://www.pluggit.com/fileserver/files/1413/609560454939420/21_10_2013_modbus_addresses.pdf

//□□Register□:□40025 | prmFWVersion□□□□□| UINT□| Read□|□FW Version: Major(8bits) and Minor (8bi
//□□Register□:□40101 | prmHALTaho1□□□□□□| Float□| Read□|□Fan1 rpm
//□□Register□:□40103 | prmHALTaho2□□□□□□| Float□| Read□|□Fan2 rpm
//□□Register□:□40109 | prmDateTime  □□□□□| UINT□| Read□|□Current Date/time in Unix time
//□□Register□:□40109 | prmDateTimeSet  □□□□| UINT□| Write□|□New date/time in Unix time
//□□Register□:□40133 | prmRamIdxT1  □□□□□| Float□| Read□|□Outdoor temperature T1, °C
//□□Register□:□40135 | prmRamIdxT2 □□□□□| Float□| Read□|□Supply  temperature T2, °C
//□□Register□:□40137 | prmRamIdxT3  □□□□□| Float□| Read□|□Extract temperature T3, °C
//□□Register□:□40139 | prmRamIdxT4  □□□□□| Float□| Read□|□Exhaust temperature T4, °C
//□□Register□:□40161 | prmPreheaterDutyCycle  □□□| UINT□| Read□|□Power of Preheater in %
//□□Register□:□40169 | prmRamIdxUnitMode□□□□| UINT□| Write□|□Active Unit mode:
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□| Read□|□□Demand Mode□□□□0x0002□□2
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Manual Mode□□□□0x0004□□4
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□WeekProgram Mode□□0x0008□□8
//
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Away Mode Start□□□0x0010□□16
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//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Summer Mode End□□□0x8800□□34816
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//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Deselect Manual bypass□0x8080□□32896
//
```

```
//□□Register□:□40199 | prmRamIdxBypassActualState□□| UINT□| Read□|□Bypass state:
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□0□Closed□□0x0000
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□1□In process□0x0001
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□32□Closing□□0x0020
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□64□Opening□□0x0040
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□255□Opened□□0x00FF
//
//□□Register□:□40265 | prmRamIdxBypassManualTimeout□| UINT□| Read□|□Manual bypass duration in m
//
//□□Register□:□40325 | prmRomIdxSpeedLevel□□□□| UINT□| Write□|□Speed level of Fans ->  Manual m
step can be set
//□□□□□□40325 | prmRomIdxSpeedLevel□□□□| UINT□| Read□|□Speed level of Fans ->  Other modes: Fan
read.
//□□Register□:□40445 | prmBypassTmin □□□□□| Float□| Read□|□Min temperature for outdoor air (T1)
//□□Register□:□40447 | prmBypassTmax □□□□□| Float□| Read□|□Max temperature for extract air (T3)
//□□Register□:□40473 | prmCurrentBLState □□□□| UINT□| Read□|□Current unit mode:
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□0□Standby
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□1□Manual
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□2□Demand
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□3□Week program
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□4□Servo-flow
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□5□Away
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□6□Summer
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□7□DI Override
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□8□Hygrostat override
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□9□Fireplace
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□10□Installer
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□11□Fail Safe 1
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□12□Fail Safe 2
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□13□Fail Off
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□14□Defrost Off
//□□□□□□□□□□□□□□□□□□□□□□□□□□□□□15□Defrost
//
//□□Register□:□40555 | prmFilterRemainingTime  □□| UINT□| Read□|□Remaining time of the Filter L
(Days)
//□□Register□:□40557 | prmFilterDefaultTime  □□□| UINT□| Write□|□Filter Lifetime (Days)
//□□□□□□□□□□□□□□□□□□□□□□| Read□|
//□□Register□:□40559 | prmFilterReset  □□□□| UINT□| Write□|□Reset filter timer
//□□□□□□□□□□□□□□□□□□□□□□□□□□□|□Reset filter timer
//□□Register□:□40625 | prmWorkTime  □□□□□| UINT□| Read□|□Work time of system, in hours
```

```
//□□Register□:□40669 | prmStartExploitationDateStamp□| UINT□| Read□|□Date Stamp of the system s
time in Unix time
//      Register□:□40431 | prmVOC □□□□□□□□| UINT□| Read□|□VOC sensor value (read from VOC); ppm.
not installed, then 0.
//□□Register□:□40563 | prmPPM1Unit □□□□□□| UINT□| Read□|□Low Treshold of VOC (ppm)
//□□Register□:□40565 | prmPPM2Unit □□□□□□| UINT□| Read□|□Low Treshold of VOC (ppm)
//□□Register□:□40567 | prmPPM3Unit □□□□□□| UINT□| Read□|□Low Treshold of VOC (ppm)
//

Bridge modbus:tcp:PluggitAP310 [ host="192.168.0.15", port=502, id=2 ] {

□//---------------------------------------------------------------------------
□//□Status□□:□OK
□//
□Bridge poller prmFWVersion□□□□□[ start=25,□□length=4, refresh=5000,□□type="holding" ] {
□□Thing data register□□□□□□□[ readStart="25",□readValueType="uint32" ]
□}
□
□//---------------------------------------------------------------------------
□//□Status□□:□OK
□//
□Bridge poller prmHALTaho1□□□□□[ start=101,□□length=4, refresh=5000,□□type="holding" ] {
□□Thing data register□□□□□□□[ readStart="101",□readValueType="float32" ]
□}

□//---------------------------------------------------------------------------
□//□Status□□:□OK
□//
□Bridge poller prmHALTaho2□□□□□[ start=103,□□length=4,□refresh=5000,□type="holding" ] {
□□Thing data register□□□□□□□[ readStart="103",□readValueType="float32" ]
□}

□//---------------------------------------------------------------------------
□//□Status□□:□OK
□//
□Bridge poller prmDateTime□□□□□[ start=108,□□length=4,□refresh=5000,□type="holding" ] {
□□Thing data register□□□□□□□[ readStart="108",□readValueType="int64" ]
□□Thing data registerDateTime□□□□[ readStart="108",□readValueType="int64",
readTransform="JS(EpocheToDateTime.js)" ]
□}
```

```
    //---------------------------------------------------------------------
    //  Status  :  ???
    //
    Bridge poller prmDateTimeSet      [ start=108,   length=4,  refresh=5000,  type="holding" ] {
      Thing data register       [ writeStart="108", writeValueType="int64", writeType="holding" ]
    }

    //---------------------------------------------------------------------
    //  Status  :  OK
    //
    Bridge poller prmRamIdxT1      [ start=133,   length=4,  refresh=5000,  type="holding" ] {
      Thing data register       [ readStart="133",  readValueType="float32" ]
    }

    //---------------------------------------------------------------------
    //  Status  :  OK
    //
    Bridge poller prmRamIdxT2      [ start=135,   length=4,  refresh=5000,  type="holding" ] {
      Thing data register       [ readStart="135",  readValueType="float32" ]
    }

    //---------------------------------------------------------------------
    //  Status  :  OK
    //
    Bridge poller prmRamIdxT3      [ start=137,   length=4,  refresh=5000,  type="holding" ] {
      Thing data register       [ readStart="137",  readValueType="float32" ]
    }

    //---------------------------------------------------------------------
    //  Status  :  OK
    //
    Bridge poller prmRamIdxT4      [ start=139,   length=4,  refresh=5000,  type="holding" ] {
      Thing data register       [ readStart="139",  readValueType="float32" ]
    }

    //---------------------------------------------------------------------
    //  Status  :  ???
    //
    Bridge poller prmPreheaterDutyCycle    [ start=160,   length=2,  refresh=5000,  type="holding" ] {
```

□□Thing data register□□□□□□[readStart="160",□readValueType="uint32_swap"]
□}

□//--
□//□Status□□:□???
□//
□Bridge poller prmRamIdxUnitMode□□□□[start=168,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="168",□readValueType="int64_swap", writeStart="169",□
writeValueType="int64_swap", writeType="holding"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmRamIdxBypassActualState□[start=198,□□length=4,□refresh=5000,□type="holding"
□□Thing data register□□□□□□[readStart="198",□readValueType="uint32_swap"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmRamIdxBypassManualTimeout□[start=264,□□length=4,□refresh=5000,□type="holding
□□Thing data register□□□□□□[readStart="264",□readValueType="uint32_swap"]
□}

□//--
□//
□//□Status□□:□OK
□//
□Bridge poller prmRomIdxSpeedLevel□□□[start=324,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data□register□□□□□[readStart="324",□readValueType="int64_swap", writeStart="324",□
writeValueType="int64_swap", writeType="holding"] //uint32
□}

□//--
□//Anpassung Christoph!
□//Status: ???

□□Bridge poller prmVOC □□□□□[start=430,□□length=4, refresh=5000,□□type="holding"] {
□□Thing data register□□□□□□[readStart="430",□readValueType="uint32_swap"]

□}
□
□//--
□//
□//□Status□□:□OK
□//
□Bridge poller prmBypassTmin□□□□□[start=445,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="445",□readValueType="float32"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmBypassTmax□□□□□[start=447,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="447",□readValueType="float32"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmCurrentBLState□□□□[start=472,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="472",□readValueType="uint32_swap"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmFilterRemainingTime□□[start=554,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="554", readValueType="uint32_swap"]
□}

□//--
□//□Status□□:□OK
□//
□Bridge poller prmFilterDefaultTime□□□[start=556,□□length=4,□refresh=5000,□type="holding"] {
□□Thing data register□□□□□□[readStart="556", readValueType="int64", writeStart="556",
writeValueType="int64", writeType="holding"]
□}

```
□//------------------------------------------------------------------------
□//□Status□□:
□//
□Bridge poller prmFilterReset□□□□[ start=558,□□length=4,□refresh=5000,□type="holding" ] {
□□Thing data register□□□□□□[ readStart="558",□readValueType="int64", writeStart="558",
writeValueType="int64", writeType="holding" ]
□}

□//------------------------------------------------------------------------
□//
□//□Status□□:
□//
□Bridge poller prmWorkTime□□□□□[ start=624,□□length=4,□refresh=5000,□type="holding" ] {
□□Thing data register□□□□□□[ readStart="624",□readValueType="uint32_swap" ]
□}

□//------------------------------------------------------------------------
□//
□//□Status□□:□OK
□Bridge poller prmStartExploitationDateStamp□[ start=668,□□length=4,□refresh=5000,□type="holdin
{
□□Thing data register□□□□□□[ readStart="668",□readValueType="uint32_swap" ]
□□Thing data registerDateTime□□□□[ readStart="668",□readValueType="uint32_swap",
readTransform="JS(EpocheToDateTime.js)" ]
□}

}
```

Revision #1
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