

# SERVERSCHECK



**Modbus TCP User Manual  
and Reference Document**

**Simply Smart Monitoring**

**FEBRUARY 2019**



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This product might include unintentional technical or typographical errors. Changes are periodically made to the information herein to correct such errors, and these changes are incorporated into new editions of the publication.

For safety reasons, the SensorGateways and sensor probes may never be moved, fully or partially covered while operating.

## Warranty:

For the warranty on this product please visit <https://serverscheck.com/>

OPENING SENSORGATEWAY OR EXTERNAL SENSOR PROBE VOIDS THE WARRANTY

## Certifications:



The ServersCheck sensors are FCC (Class A) & CE (Class B) certified. Certificates can be downloaded from <https://serverscheck.com/sensors>



## Table of Contents

<b>1. ServersCheck Sensors Compatibility</b>	<b>4</b>
1.1. Connectivity to Serverscheck Sensorgateway Using Modbus TCP	4
1.2. How to Use this Manual	4
1.3. Sensorgateway Compatibility	4
1.4. Compatibility with Serverscheck Sensors	4
<b>2. Getting Started</b>	<b>5</b>
2.1 Implementation	5
2.2 Enabling Modbus TCP	5
2.3 Supported Registers	7
2.4 Function Codes Supported	7
2.5 Error Codes Supported	8
<b>3. Modbus Register List</b>	<b>10</b>
3.1 Sensorgateway with Sensorhub Register List	10
3.2 Sensorgateway with Wireless Sensors Register List	77
3.3 Sensorhub Input Register List	110
3.4 Sensorhub Output Register List	111
3.5 Sensorhub Relay Register List	112
3.6 I/O Sensor Probe Input Register List	113
3.7 I/O Sensor Probe Output Register List	115
<b>4. How to Read Registers</b>	<b>116</b>



## 1. ServersCheck Sensors Compatibility

### 1.1. Connectivity to Serverscheck Sensorgateway Using Modbus TCP

This document describes the Modbus information which includes implementation basics, supported types, frame format, function code and similar subjects.

### 1.2. How to Use this Manual

This information is organized based on the module that you connect to the Sensorgateway.

Every Sensorgateway has a built-in Temperature probe, Modbus pt for Node 0 will always be the Internal Temperature of the Gateway either for Wired or Wireless.

Starting **Firmware 7.41**, it includes the Internal Ping. So Node 1 will always be for the Internal Ping.

All offered units are Modular, so this Reference guide will provide all Modbus list depending on the modules and combination of sensors that a customer will connect.

### 1.3. Sensorgateway Compatibility

The Modbus TCP capability is available on **Firmware Version 6.21** and higher.

### 1.4. Compatibility with Serverscheck Sensors

Being all our products modular, the Modbus TCP reference list should cover the ff products:

- |  |                                 |
|--|---------------------------------|
| A. Wired Sensor Gateway                    | M. Dust Particle Sensor         |
| B. Mobile Sensor Gateway                   | N. Flooding/Water Sensor        |
| C. Sensorhub                               | O. Power Failure Sensor         |
| D. Wireless Hub                            | P. IO Dry Contact Sensor        |
| E. Wireless Temperature and Humidity Probe | Q. Door Contact Sensor          |
| F. Wireless Temperature Sensor             | R. Multi-Sensor and Hub         |
| G. Wired Temperature and Humidity Sensor   | S. Smoke Sensor                 |
| H. Wired Temperature Sensor                | T. AC Current Sensor            |
| I. Digital Airflow Sensor                  | U. AC Power Voltage             |
| J. Digital Shock Sensor                    | V. DC Power Voltage and Current |
| K. Stainless Steel Temperature Sensor      | W. Fuel Level Sensor            |
| L. Sound (db) Sensor                       |                                 |



## 2. Getting Started

### 2.1 Implementation

Modbus TCP is an open standard protocol which uses regular Ethernet cable and switches to communicate within each other. It provides data acquisition and control, through query and response within the IP network.

**Default Modbus Port - 502**

### 2.2 Enabling Modbus TCP

Modbus TCP is disabled by default.

We invite you to watch the unboxing video before unpacking, installing and configuring your ServersCheck sensors: [https://serverscheck.com/sensors/sensorgateway\\_unboxing\\_video.asp](https://serverscheck.com/sensors/sensorgateway_unboxing_video.asp)



Once you set up the web interface, you should see the Modbus Tab under the Settings option.  
(For Firmware 8.0 and above)



## Settings & Info

Firewall

### Device information

Account name admin  
[Change Password](#)  
Current System Date 01 Jan 2019  
Current System Time 20:47:21  
[Update Time](#)  
Hardware Version Release 5.1  
Firmware Version Release 8.00 (Feb 12 2019)  
[Upgrade Firmware](#)  
Mac Address 00:03:64:03:6A:A4  
IP Address 192.168.11.110  
[Change IP](#)  
Node Status (online/used/max) 6/8/44  
[Calibrate Sensors](#)

### Industrial & external communications

SNMP



Modbus



Cloud



Email



SMS



### General settings

Device Name

SensorGateway

Enable **Modbus Server**, set up the **Server Port (Default is 502)** and set **Modbus ID (default is 1)**.

## Modbus Settings

Enable Modbus Server



Server Port

502

Modbus ID

1

[Update](#)

[Reset](#)



## 2.3 Supported Registers

**Coils (Discrete Outputs)** - 00001 to 09999 (Read/Write)

**Input Status** - 10001 to 19999 (Read)

**Input Registers** - 30001 to 39999 (Read)

**Holding Registers** - 40001 to 49999 (Read/Write)

## 2.4 Function Codes Supported

Code	Function	Description
01	Read Coils	Read from 1 to 2000 contiguous status of coils managed by the server. Coils in the response message are packed as one per bit of a byte, 1=On and 0=Off. If the requested quantity of coils is not a multiple of 8, zeros are padded in final byte.
02	Read Input Status	Read from 1 to 2000 contiguous input status managed by the server. Discrete inputs in the response message are packed as one per bit of a byte, 1=On and 0=Off. If the requested number of inputs is not a multiple of 8, zeros are padded in the final byte.
03	Read Holding Registers	Read the contents of contiguous block of 1 to 127 holding registers. Data are packed as two bytes per register; the first byte contains the high order bits.
04	Read Input Registers	Read the contents of contiguous block of 1 to 127 Input registers. Data are packed as two bytes per register; the first byte contains the high order bits.
16	Set Multiple Registers	Write values into a block of contiguous registers (1 to 120)



## 2.5 Error Codes Supported

Exception Code	Name	Meaning
1 (01 hex)	Illegal Function	The function code received in the query is not an allowable action for the slave. This may be because the function code is only applicable to newer devices, and was not implemented in the unit selected. It could also indicate that the slave is in the wrong state to process a request of this type, for example because it is unconfigured and is being asked to return register values. If a Poll Program Complete command was issued, this code indicates that no program function preceded it.
2 (02 hex)	Illegal Data Address	The data address received in the query is not an allowable address for the slave. More specifically, the combination of reference number and transfer length is invalid. For a controller with 100 registers, a request with offset 96 and length 4 would succeed, a request with offset 96 and length 5 will generate exception 02.
3 (03 hex)	Illegal Data Value	A value contained in the query data field is not an allowable value for the slave. This indicates a fault in the structure of remainder of a complex request, such as that the implied length is incorrect. It specifically does NOT mean that a data item submitted for storage in a register has a value outside the expectation of the application program, since the MODBUS protocol is unaware of the significance of any particular value of any particular register.
4 (04 hex)	Slave Device Failure	An unrecoverable error occurred while the slave was attempting to perform the requested action.





5 (05 hex)	Acknowledge	Specialized use in conjunction with programming commands. The slave has accepted the request and is processing it, but a long duration of time will be required to do so. This response is returned to prevent a timeout error from occurring in the master. The master can next issue a Poll Program Complete message to determine if processing is completed.
6 (06 hex)	Slave Device Busy	Specialized use in conjunction with programming commands. The slave is engaged in processing a long-duration program command. The master should retransmit the message later when the slave is free.
7 (07 hex)	Negative Acknowledge	The slave cannot perform the program function received in the query. This code is returned for an unsuccessful programming request using function code 13 or 14 decimal. The master should request diagnostic or error information from the slave.
8 (08 hex)	Memory Parity Error	Specialized use in conjunction with function codes 20 and 21 and reference type 6, to indicate that the extended file area failed to pass a consistency check. The slave attempted to read extended memory or record file, but detected a parity error in memory. The master can retry the request, but service may be required on the slave device.
10 (0A hex)	Gateway Path Unavailable	Specialized use in conjunction with gateways, indicates that the gateway was unable to allocate an internal communication path from the input port to the output port for processing the request. Usually means the gateway is misconfigured or overloaded.
11 (0B hex)	Gateway Target Device Failed to Respond	Specialized use in conjunction with gateways, indicates that no response was obtained from the target device. Usually means that the device is not present on the network.



## 3. Modbus Register List

### 3.1 Sensorgateway with Sensorhub Register List

Things to remember:

- \* The built-in Temperature Sensor of the Sensorgateway is always on Node 0.
- \* For **Firmware 7.41 and above**, Internal Ping is always on Node 1. Even if the Ping is disabled, it still picks the last value before you disabled it.
- \* Wired Temperature and Humidity Sensor Probe has 3 node values which appear as follows:
  - 1st node value - Temperature
  - 2nd node value - Humidity
  - 3rd node value - Dewpoint
- \* Node numbers follows as to what Sensor is plugged first on the Sensor Ports or what is shown first on the web interface.
- \* If a particular sensor connected has an alarm on the Warning and Down Range, it will trigger the register either for Alarm Warning or Alarm Down respectively regardless of either the value is less than (<) or the value is greater than (>) than the threshold.



## Node 0 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 0 Value			30200-30201		
Length = 3, Unsigned	Node 0 State	10200				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 0 Type			30202		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 0 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 0 Connection			30203		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 0 in Alarm Down	10201				
Length = 3, Unsigned	Node 0 in Alarm Warning	10202				
Length = 8, Floating	Node 0 Threshold High Down				40200-40201	
Length = 8, Floating	Node 0 Threshold High Warning				40202-40203	
Length = 8, Floating	Node 0 Threshold Low Down				40204-40205	
Length = 8, Floating	Node 0 Threshold Low Warning				40206-40207	



## Node 1 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 1 Value			30232-30233		
Length = 3, Unsigned	Node 1 State	10232				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 1 Type			30234		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 1 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 1 Connection			30235		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 1 in Alarm Down	10233				
Length = 3, Unsigned	Node 1 in Alarm Warning	10234				
Length = 8, Floating	Node 1 Threshold High Down				40232-40233	
Length = 8, Floating	Node 1 Threshold High Warning				40234-40235	
Length = 8, Floating	Node 1 Threshold Low Down				40236-40237	
Length = 8, Floating	Node 1 Threshold Low Warning				40238-40239	



## Node 2 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 2 Value			30264-30265		
Length = 3, Unsigned	Node 2 State	10264				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 2 Type			30266		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 2 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 2 Connection			30267		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 2 in Alarm Down	10265				
Length = 3, Unsigned	Node 2 in Alarm Warning	10266				
Length = 8, Floating	Node 2 Threshold High Down				40264-40265	
Length = 8, Floating	Node 2 Threshold High Warning				40266-40267	
Length = 8, Floating	Node 2 Threshold Low Down				40268-40269	
Length = 8, Floating	Node 2 Threshold Low Warning				40270-40271	





## Node 3 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 3 Value			30296-30297		
Length = 3, Unsigned	Node 3 State	10296				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 3 Type			30298		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 3 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 3 Connection			30299		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 3 in Alarm Down	10297				
Length = 3, Unsigned	Node 3 in Alarm Warning	10298				
Length = 8, Floating	Node 3 Threshold High Down				40296-40297	
Length = 8, Floating	Node 3 Threshold High Warning				40298-40299	
Length = 8, Floating	Node 3 Threshold Low Down				40300-40301	
Length = 8, Floating	Node 3 Threshold Low Warning				40302-40303	



## Node 4 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 4 Value			30328-30329		
Length = 3, Unsigned	Node 4 State	10328				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 4 Type			30330		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 4 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 4 Connection			30331		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 4 in Alarm Down	10329				
Length = 3, Unsigned	Node 4 in Alarm Warning	10230				
Length = 8, Floating	Node 4 Threshold High Down				40328-40329	
Length = 8, Floating	Node 4 Threshold High Warning				40330-40331	
Length = 8, Floating	Node 4 Threshold Low Down				40332-40333	
Length = 8, Floating	Node 4 Threshold Low Warning				40334-40335	



## Node 5 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 5 Value			30360-30361		
Length = 3, Unsigned	Node 5 State	10360				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 5 Type			30362		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 5 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 5 Connection			30363		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 5 in Alarm Down	10361				
Length = 3, Unsigned	Node 5 in Alarm Warning	10362				
Length = 8, Floating	Node 5 Threshold High Down				40360-40361	
Length = 8, Floating	Node 5 Threshold High Warning				40362-40363	
Length = 8, Floating	Node 5 Threshold Low Down				40364-40365	
Length = 8, Floating	Node 5 Threshold Low Warning				40366-40367	



## Node 6 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 6 Value			30392-30393		
Length = 3, Unsigned	Node 6 State	10392				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 6 Type			30394		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 6 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 6 Connection			30395		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 6 in Alarm Down	10393				
Length = 3, Unsigned	Node 6 in Alarm Warning	10394				
Length = 8, Floating	Node 6 Threshold High Down				40392-40393	
Length = 8, Floating	Node 6 Threshold High Warning				40394-40395	
Length = 8, Floating	Node 6 Threshold Low Down				40396-40397	
Length = 8, Floating	Node 6 Threshold Low Warning				40398-40399	





## Node 7 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 7 Value			30424-30425		
Length = 3, Unsigned	Node 7 State	10424				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 7 Type			30426		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 7 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 7 Connection			30427		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 7 in Alarm Down	10425				
Length = 3, Unsigned	Node 7 in Alarm Warning	10426				
Length = 8, Floating	Node 7 Threshold High Down				40424-40425	
Length = 8, Floating	Node 7 Threshold High Warning				40426-40427	
Length = 8, Floating	Node 7 Threshold Low Down				40428-40429	
Length = 8, Floating	Node 7 Threshold Low Warning				40430-40431	



## Node 8 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 8 Value			30456-30457		
Length = 3, Unsigned	Node 8 State	10456				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 8 Type			30458		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 8 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 8 Connection			30459		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 8 in Alarm Down	10457				
Length = 3, Unsigned	Node 8 in Alarm Warning	10458				
Length = 8, Floating	Node 8 Threshold High Down				40456-40457	
Length = 8, Floating	Node 8 Threshold High Warning				40458-40459	
Length = 8, Floating	Node 8 Threshold Low Down				40460-40461	
Length = 8, Floating	Node 8 Threshold Low Warning				40462-40463	



## Node 9 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 9 Value			30488-30489		
Length = 3, Unsigned	Node 9 State	10488				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 9 Type			30490		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 9 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 9 Connection			30491		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 9 in Alarm Down	10489				
Length = 3, Unsigned	Node 9 in Alarm Warning	10490				
Length = 8, Floating	Node 9 Threshold High Down				40488-40489	
Length = 8, Floating	Node 9 Threshold High Warning				40490-40491	
Length = 8, Floating	Node 9 Threshold Low Down				40492-40493	
Length = 8, Floating	Node 9 Threshold Low Warning				40494-40495	



## Node 10 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 10 Value			30520-30521		
Length = 3, Unsigned	Node 10 State	10520				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 10 Type			30522		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 10 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 10 Connection			30523		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 10 in Alarm Down	10521				
Length = 3, Unsigned	Node 10 in Alarm Warning	10522				
Length = 8, Floating	Node 10 Threshold High Down				40520-40521	
Length = 8, Floating	Node 10 Threshold High Warning				40522-40523	
Length = 8, Floating	Node 10 Threshold Low Down				40524-40525	
Length = 8, Floating	Node 10 Threshold Low Warning				40526-40527	





## Node 11 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 11 Value			30552-30553		
Length = 3, Unsigned	Node 11 State	10552				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 11 Type			30554		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 11 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 11 Connection			30555		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 11 in Alarm Down	10553				
Length = 3, Unsigned	Node 11 in Alarm Warning	10554				
Length = 8, Floating	Node 11 Threshold High Down				40552-40553	
Length = 8, Floating	Node 11 Threshold High Warning				40554-40555	
Length = 8, Floating	Node 11 Threshold Low Down				40556-40557	
Length = 8, Floating	Node 11 Threshold Low Warning				40558-40559	



## Node 12 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 12 Value			30584-30585		
Length = 3, Unsigned	Node 12 State	10584				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 12 Type			30586		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 12 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 12 Connection			30587		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 12 in Alarm Down	10585				
Length = 3, Unsigned	Node 12 in Alarm Warning	10586				
Length = 8, Floating	Node 12 Threshold High Down				40584-40585	
Length = 8, Floating	Node 12 Threshold High Warning				40586-40587	
Length = 8, Floating	Node 12 Threshold Low Down				40588-40589	
Length = 8, Floating	Node 12 Threshold Low Warning				40590-40591	



## Node 13 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 13 Value			30616-30617		
Length = 3, Unsigned	Node 13 State	10616				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 13 Type			30618		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 13 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 13 Connection			30619		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 13 in Alarm Down	10617				
Length = 3, Unsigned	Node 13 in Alarm Warning	10618				
Length = 8, Floating	Node 13 Threshold High Down				40616-40617	
Length = 8, Floating	Node 13 Threshold High Warning				40618-40619	
Length = 8, Floating	Node 13 Threshold Low Down				40620-40621	
Length = 8, Floating	Node 13 Threshold Low Warning				40622-40623	



## Node 14 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 14 Value			30648-30649		
Length = 3, Unsigned	Node 14 State	10648				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 14 Type			30650		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 14 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 14 Connection			30651		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 14 in Alarm Down	10649				
Length = 3, Unsigned	Node 14 in Alarm Warning	10650				
Length = 8, Floating	Node 14 Threshold High Down				40648-40649	
Length = 8, Floating	Node 14 Threshold High Warning				40650-40651	
Length = 8, Floating	Node 14 Threshold Low Down				40652-40653	
Length = 8, Floating	Node 14 Threshold Low Warning				40654-40655	





## Node 15 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 15 Value			30680-30681		
Length = 3, Unsigned	Node 15 State	10680				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 15 Type			30682		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 15 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 15 Connection			30683		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 15 in Alarm Down	10681				
Length = 3, Unsigned	Node 15 in Alarm Warning	10682				
Length = 8, Floating	Node 15 Threshold High Down				40680-40681	
Length = 8, Floating	Node 15 Threshold High Warning				40682-40683	
Length = 8, Floating	Node 15 Threshold Low Down				40684-40685	
Length = 8, Floating	Node 15 Threshold Low Warning				40686-40687	



## Node 16 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 16 Value			30712-30713		
Length = 3, Unsigned	Node 16 State	10712				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 16 Type			30714		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 16 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 16 Connection			30715		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 16 in Alarm Down	10713				
Length = 3, Unsigned	Node 16 in Alarm Warning	10714				
Length = 8, Floating	Node 16 Threshold High Down				40712-40713	
Length = 8, Floating	Node 16 Threshold High Warning				40714-40715	
Length = 8, Floating	Node 16 Threshold Low Down				40716-40717	
Length = 8, Floating	Node 16 Threshold Low Warning				40718-40719	



## Node 17 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 17 Value			30744-30745		
Length = 3, Unsigned	Node 17 State	10744				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 17 Type			30746		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 17 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 17 Connection			30747		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 17 in Alarm Down	10745				
Length = 3, Unsigned	Node 17 in Alarm Warning	10746				
Length = 8, Floating	Node 17 Threshold High Down				40744-40745	
Length = 8, Floating	Node 17 Threshold High Warning				40746-40747	
Length = 8, Floating	Node 17 Threshold Low Down				40748-40749	
Length = 8, Floating	Node 17 Threshold Low Warning				40750-40751	



## Node 18 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 18 Value			30776-30777		
Length = 3, Unsigned	Node 18 State	10776				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 18 Type			30778		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 18 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 18 Connection			30779		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 18 in Alarm Down	10777				
Length = 3, Unsigned	Node 18 in Alarm Warning	10778				
Length = 8, Floating	Node 18 Threshold High Down				40776-40777	
Length = 8, Floating	Node 18 Threshold High Warning				40778-40779	
Length = 8, Floating	Node 18 Threshold Low Down				40780-40781	
Length = 8, Floating	Node 18 Threshold Low Warning				40782-40783	





## Node 19 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 19 Value			30808-30809		
Length = 3, Unsigned	Node 19 State	10808				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 19 Type			30810		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 19 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 19 Connection			30811		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 19 in Alarm Down	10809				
Length = 3, Unsigned	Node 19 in Alarm Warning	10810				
Length = 8, Floating	Node 19 Threshold High Down				40808-40809	
Length = 8, Floating	Node 19 Threshold High Warning				40810-40811	
Length = 8, Floating	Node 19 Threshold Low Down				40812-40813	
Length = 8, Floating	Node 19 Threshold Low Warning				40814-40815	



## Node 20 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 20 Value			30840-30841		
Length = 3, Unsigned	Node 20 State	10840				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 20 Type			30842		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 20 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 20 Connection			30843		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 20 in Alarm Down	10841				
Length = 3, Unsigned	Node 20 in Alarm Warning	10842				
Length = 8, Floating	Node 20 Threshold High Down				40840-40841	
Length = 8, Floating	Node 20 Threshold High Warning				40842-40843	
Length = 8, Floating	Node 20 Threshold Low Down				40844-40845	
Length = 8, Floating	Node 20 Threshold Low Warning				40846-40847	



## Node 21 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 21 Value			30872-30873		
Length = 3, Unsigned	Node 21 State	10872				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 21 Type			30874		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 21 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 21 Connection			30875		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 21 in Alarm Down	10873				
Length = 3, Unsigned	Node 21 in Alarm Warning	10874				
Length = 8, Floating	Node 21 Threshold High Down				40872-40873	
Length = 8, Floating	Node 21 Threshold High Warning				40874-40875	
Length = 8, Floating	Node 21 Threshold Low Down				40876-40877	
Length = 8, Floating	Node 21 Threshold Low Warning				40878-40879	



## Node 22 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 22 Value			30904-30905		
Length = 3, Unsigned	Node 22 State	10904				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 22 Type			30906		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 22 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 22 Connection			30907		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 22 in Alarm Down	10905				
Length = 3, Unsigned	Node 22 in Alarm Warning	10906				
Length = 8, Floating	Node 22 Threshold High Down				40904-40905	
Length = 8, Floating	Node 22 Threshold High Warning				40906-40907	
Length = 8, Floating	Node 22 Threshold Low Down				40908-40909	
Length = 8, Floating	Node 22 Threshold Low Warning				40910-40911	





## Node 23 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 23 Value			30936-30937		
Length = 3, Unsigned	Node 23 State	10936				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 23 Type			30938		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 23 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 23 Connection			30939		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 23 in Alarm Down	10937				
Length = 3, Unsigned	Node 23 in Alarm Warning	10938				
Length = 8, Floating	Node 23 Threshold High Down				40936-40937	
Length = 8, Floating	Node 23 Threshold High Warning				40938-40939	
Length = 8, Floating	Node 23 Threshold Low Down				40940-40941	
Length = 8, Floating	Node 23 Threshold Low Warning				40942-40943	



## Node 24 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 24 Value			30968-30969		
Length = 3, Unsigned	Node 24 State	10968				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 24 Type			30970		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 24 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 24 Connection			30971		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 24 in Alarm Down	10969				
Length = 3, Unsigned	Node 24 in Alarm Warning	10970				
Length = 8, Floating	Node 24 Threshold High Down				40968-40969	
Length = 8, Floating	Node 24 Threshold High Warning				40970-40971	
Length = 8, Floating	Node 24 Threshold Low Down				40972-40973	
Length = 8, Floating	Node 24 Threshold Low Warning				40974-40975	



## Node 25 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 25 Value			31000-31001		
Length = 3, Unsigned	Node 25 State	11000				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 25 Type			31002		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 25 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 25 Connection			31003		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 25 in Alarm Down	11001				
Length = 3, Unsigned	Node 25 in Alarm Warning	11002				
Length = 8, Floating	Node 25 Threshold High Down				41000-41001	
Length = 8, Floating	Node 25 Threshold High Warning				41002-41003	
Length = 8, Floating	Node 25 Threshold Low Down				41004-41005	
Length = 8, Floating	Node 25 Threshold Low Warning				41006-41007	



## Node 26 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 26 Value			31032-31033		
Length = 3, Unsigned	Node 26 State	11032				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 26 Type			31034		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 26 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 26 Connection			31035		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 26 in Alarm Down	11033				
Length = 3, Unsigned	Node 26 in Alarm Warning	11034				
Length = 8, Floating	Node 26 Threshold High Down				41032-41033	
Length = 8, Floating	Node 26 Threshold High Warning				41034-41035	
Length = 8, Floating	Node 26 Threshold Low Down				41036-41037	
Length = 8, Floating	Node 26 Threshold Low Warning				41038-41039	





## Node 27 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 27 Value			31064-31065		
Length = 3, Unsigned	Node 27 State	11064				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 27 Type			31066		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 27 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 27 Connection			31067		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 27 in Alarm Down	11065				
Length = 3, Unsigned	Node 27 in Alarm Warning	11066				
Length = 8, Floating	Node 27 Threshold High Down				41064-41065	
Length = 8, Floating	Node 27 Threshold High Warning				41066-41067	
Length = 8, Floating	Node 27 Threshold Low Down				41068-41069	
Length = 8, Floating	Node 27 Threshold Low Warning				41070-41071	



## Node 28 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 28 Value			31096-31097		
Length = 3, Unsigned	Node 28 State	11096				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 28 Type			31098		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 28 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 28 Connection			31099		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 28 in Alarm Down	11097				
Length = 3, Unsigned	Node 28 in Alarm Warning	11098				
Length = 8, Floating	Node 28 Threshold High Down				41096-41097	
Length = 8, Floating	Node 28 Threshold High Warning				41098-41099	
Length = 8, Floating	Node 28 Threshold Low Down				41100-41101	
Length = 8, Floating	Node 28 Threshold Low Warning				41102-41103	



## Node 29 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 29 Value			31128-31129		
Length = 3, Unsigned	Node 29 State	11128				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 29 Type			31130		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 29 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 29 Connection			31131		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 29 in Alarm Down	11129				
Length = 3, Unsigned	Node 29 in Alarm Warning	11130				
Length = 8, Floating	Node 29 Threshold High Down				41128-41129	
Length = 8, Floating	Node 29 Threshold High Warning				41130-41131	
Length = 8, Floating	Node 29 Threshold Low Down				41132-41133	
Length = 8, Floating	Node 29 Threshold Low Warning				41134-41135	



## Node 30 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 30 Value			31160-31161		
Length = 3, Unsigned	Node 30 State	11160				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 30 Type			31162		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 30 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 30 Connection			31163		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 30 in Alarm Down	11161				
Length = 3, Unsigned	Node 30 in Alarm Warning	11162				
Length = 8, Floating	Node 30 Threshold High Down				41160-41161	
Length = 8, Floating	Node 30 Threshold High Warning				41162-41163	
Length = 8, Floating	Node 30 Threshold Low Down				41164-41165	
Length = 8, Floating	Node 30 Threshold Low Warning				41166-41167	





## Node 31 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 31 Value			31192-31193		
Length = 3, Unsigned	Node 31 State	11192				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 31 Type			31194		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 31 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 31 Connection			31195		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 31 in Alarm Down	11193				
Length = 3, Unsigned	Node 31 in Alarm Warning	11194				
Length = 8, Floating	Node 31 Threshold High Down				41192-41193	
Length = 8, Floating	Node 31 Threshold High Warning				41194-41195	
Length = 8, Floating	Node 31 Threshold Low Down				41196-41197	
Length = 8, Floating	Node 31 Threshold Low Warning				41198-41199	



## Node 32 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 32 Value			31224-31225		
Length = 3, Unsigned	Node 32 State	11224				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 32 Type			31226		1 - Temperature 2 - Humidity 3 - Airflow 4 - Shock 5 - Dust 7 - Sound Pressure 8 - Power Failure Sensor 9 - Leak 10 - CO 12 - Door Contact Security 13 - Dewpoint 14 - Fuel Level (Fuel Level Sensor) 15 - Flow Rate (Fuel Level Sensor) 16 - Resistance 19 - Motion 20 - Smoke 21 - Light 24 - Volt (AC/DC Power Sensor) 25 - Amp (AC/DC Power Sensor) 26 - Watt (AC/DC Power Sensor) 27 - WattHour (AC/DC Power Sensor) 28 - Ping



## Node 32 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Node 32 Connection			31227		0 - Gateway, 1 - Sensor Hub
Length = 3, Unsigned	Node 32 in Alarm Down	11225				
Length = 3, Unsigned	Node 32 in Alarm Warning	11226				
Length = 8, Floating	Node 32 Threshold High Down				41224-41225	
Length = 8, Floating	Node 32 Threshold High Warning				41226-41227	
Length = 8, Floating	Node 32 Threshold Low Down				41228-41229	
Length = 8, Floating	Node 32 Threshold Low Warning				41230-41231	



## 3.2 Sensorgateway with Wireless Sensors Register List

Things to remember:

\* The built-in Temperature Sensor of the Sensorgateway is always on Node 0.

\* For **Firmware 7.41 and above**, Internal Ping is always on Node 1. Even if the Ping is disabled, it still picks the last value before you disabled it.

\* The Wireless Sensors that shows on chronological order on the web interface, take reference in the numbering of the Node Number.

### Node 0 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 0 Value			30200-30201		
Length = 3, Unsigned	Node 0 State	10200				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 0 Type			30202		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 0 Connection			30203		2 - Wireless Hub
Length = 3, Unsigned	Node 0 in Alarm Down	10201				
Length = 3, Unsigned	Node 0 in Alarm Warning	10202				
Length = 8, Floating	Node 0 Threshold High Down				40200-40201	
Length = 8, Floating	Node 0 Threshold High Warning				40202-40203	
Length = 8, Floating	Node 0 Threshold Low Down				40204-40205	
Length = 8, Floating	Node 0 Threshold Low Warning				40206-40207	



## Node 1 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 1 Value			33200-33201		
Length = 3, Unsigned	Node 1 State	13200				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 1 Type			33202		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 1 Connection			33203		2 - Wireless Hub
Length = 3, Unsigned	Node 1 in Alarm Down	13201				
Length = 3, Unsigned	Node 1 in Alarm Warning	13202				
Length = 8, Floating	Node 1 Threshold High Down				43200-43201	
Length = 8, Floating	Node 1 Threshold High Warning				43202-43203	
Length = 8, Floating	Node 1 Threshold Low Down				43204-43205	
Length = 8, Floating	Node 1 Threshold Low Warning				43206-43207	



## Node 2 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 2 Value			33232-33233		
Length = 3, Unsigned	Node 2 State	13232				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 2 Type			33234		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 2 Connection			33235		2 - Wireless Hub
Length = 3, Unsigned	Node 2 in Alarm Down	13233				
Length = 3, Unsigned	Node 2 in Alarm Warning	13234				
Length = 8, Floating	Node 2 Threshold High Down				43232-43233	
Length = 8, Floating	Node 2 Threshold High Warning				43234-43235	
Length = 8, Floating	Node 2 Threshold Low Down				43236-43237	
Length = 8, Floating	Node 2 Threshold Low Warning				43238-43239	



## Node 3 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 3 Value			33264-33265		
Length = 3, Unsigned	Node 3 State	13264				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 3 Type			33266		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 3 Connection			33267		2 - Wireless Hub
Length = 3, Unsigned	Node 3 in Alarm Down	13265				
Length = 3, Unsigned	Node 3 in Alarm Warning	13266				
Length = 8, Floating	Node 3 Threshold High Down				43264-43265	
Length = 8, Floating	Node 3 Threshold High Warning				43266-43267	
Length = 8, Floating	Node 3 Threshold Low Down				43268-43269	
Length = 8, Floating	Node 3 Threshold Low Warning				43270-43271	





## Node 4 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 4 Value			33296-33297		
Length = 3, Unsigned	Node 4 State	13296				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 4 Type			33298		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 4 Connection			33299		2 - Wireless Hub
Length = 3, Unsigned	Node 4 in Alarm Down	13297				
Length = 3, Unsigned	Node 4 in Alarm Warning	13298				
Length = 8, Floating	Node 4 Threshold High Down				43296-43297	
Length = 8, Floating	Node 4 Threshold High Warning				43298-43299	
Length = 8, Floating	Node 4 Threshold Low Down				43300-43301	
Length = 8, Floating	Node 4 Threshold Low Warning				43302-43303	



## Node 5 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 5 Value			33328-33329		
Length = 3, Unsigned	Node 5 State	13328				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 5 Type			33330		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 5 Connection			33331		2 - Wireless Hub
Length = 3, Unsigned	Node 5 in Alarm Down	13329				
Length = 3, Unsigned	Node 5 in Alarm Warning	13330				
Length = 8, Floating	Node 5 Threshold High Down				43328-43329	
Length = 8, Floating	Node 5 Threshold High Warning				43330-43331	
Length = 8, Floating	Node 5 Threshold Low Down				43332-43333	
Length = 8, Floating	Node 5 Threshold Low Warning				43334-43335	



## Node 6 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 6 Value			33360-33361		
Length = 3, Unsigned	Node 6 State	13360				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 6 Type			33362		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 6 Connection			33363		2 - Wireless Hub
Length = 3, Unsigned	Node 6 in Alarm Down	13361				
Length = 3, Unsigned	Node 6 in Alarm Warning	13362				
Length = 8, Floating	Node 6 Threshold High Down				43360-43361	
Length = 8, Floating	Node 6 Threshold High Warning				43362-43363	
Length = 8, Floating	Node 6 Threshold Low Down				43364-43365	
Length = 8, Floating	Node 6 Threshold Low Warning				43366-43367	



## Node 7 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 7 Value			33392-33393		
Length = 3, Unsigned	Node 7 State	13392				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 7 Type			33394		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 7 Connection			33395		2 - Wireless Hub
Length = 3, Unsigned	Node 7 in Alarm Down	13393				
Length = 3, Unsigned	Node 7 in Alarm Warning	13394				
Length = 8, Floating	Node 7 Threshold High Down				43392-43393	
Length = 8, Floating	Node 7 Threshold High Warning				43394-43395	
Length = 8, Floating	Node 7 Threshold Low Down				43396-43397	
Length = 8, Floating	Node 7 Threshold Low Warning				43398-43399	



## Node 8 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 8 Value			33424-33425		
Length = 3, Unsigned	Node 8 State	13424				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 8 Type			33426		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 8 Connection			33427		2 - Wireless Hub
Length = 3, Unsigned	Node 8 in Alarm Down	13425				
Length = 3, Unsigned	Node 8 in Alarm Warning	13426				
Length = 8, Floating	Node 8 Threshold High Down				43424-43425	
Length = 8, Floating	Node 8 Threshold High Warning				43426-43427	
Length = 8, Floating	Node 8 Threshold Low Down				43428-43429	
Length = 8, Floating	Node 8 Threshold Low Warning				43430-43431	



## Node 9 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 9 Value			33456-33457		
Length = 3, Unsigned	Node 9 State	13456				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 9 Type			33458		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 9 Connection			33459		2 - Wireless Hub
Length = 3, Unsigned	Node 9 in Alarm Down	13457				
Length = 3, Unsigned	Node 9 in Alarm Warning	13458				
Length = 8, Floating	Node 9 Threshold High Down				43456-43457	
Length = 8, Floating	Node 9 Threshold High Warning				43458-43459	
Length = 8, Floating	Node 9 Threshold Low Down				43460-43461	
Length = 8, Floating	Node 9 Threshold Low Warning				43462-43463	



## Node 10 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 10 Value			33488-33489		
Length = 3, Unsigned	Node 10 State	13488				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 10 Type			33490		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 10 Connection			33491		2 - Wireless Hub
Length = 3, Unsigned	Node 10 in Alarm Down	13489				
Length = 3, Unsigned	Node 10 in Alarm Warning	13490				
Length = 8, Floating	Node 10 Threshold High Down				43488-43489	
Length = 8, Floating	Node 10 Threshold High Warning				43490-43491	
Length = 8, Floating	Node 10 Threshold Low Down				43492-43493	
Length = 8, Floating	Node 10 Threshold Low Warning				43494-43495	



## Node 11 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 11 Value			33520-33521		
Length = 3, Unsigned	Node 11 State	13520				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 11 Type			33522		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 11 Connection			33523		2 - Wireless Hub
Length = 3, Unsigned	Node 11 in Alarm Down	13521				
Length = 3, Unsigned	Node 11 in Alarm Warning	13522				
Length = 8, Floating	Node 11 Threshold High Down				43520-43521	
Length = 8, Floating	Node 11 Threshold High Warning				43522-43523	
Length = 8, Floating	Node 11 Threshold Low Down				43524-43525	
Length = 8, Floating	Node 11 Threshold Low Warning				43526-43527	





## Node 12 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 12 Value			33552-33553		
Length = 3, Unsigned	Node 12 State	13552				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 12 Type			33554		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 12 Connection			33555		2 - Wireless Hub
Length = 3, Unsigned	Node 12 in Alarm Down	13553				
Length = 3, Unsigned	Node 12 in Alarm Warning	13554				
Length = 8, Floating	Node 12 Threshold High Down				43552-43553	
Length = 8, Floating	Node 12 Threshold High Warning				43554-43555	
Length = 8, Floating	Node 12 Threshold Low Down				43556-43557	
Length = 8, Floating	Node 12 Threshold Low Warning				43558-43559	



## Node 13 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 13 Value			33584-33585		
Length = 3, Unsigned	Node 13 State	13584				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 13 Type			33586		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 13 Connection			33587		2 - Wireless Hub
Length = 3, Unsigned	Node 13 in Alarm Down	13585				
Length = 3, Unsigned	Node 13 in Alarm Warning	13586				
Length = 8, Floating	Node 13 Threshold High Down				43584-43585	
Length = 8, Floating	Node 13 Threshold High Warning				43586-43587	
Length = 8, Floating	Node 13 Threshold Low Down				43588-43589	
Length = 8, Floating	Node 13 Threshold Low Warning				43590-43591	



## Node 14 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 14 Value			33616-33617		
Length = 3, Unsigned	Node 14 State	13616				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 14 Type			33618		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 14 Connection			33619		2 - Wireless Hub
Length = 3, Unsigned	Node 14 in Alarm Down	13617				
Length = 3, Unsigned	Node 14 in Alarm Warning	13618				
Length = 8, Floating	Node 14 Threshold High Down				43616-43617	
Length = 8, Floating	Node 14 Threshold High Warning				43618-43619	
Length = 8, Floating	Node 14 Threshold Low Down				43620-43621	
Length = 8, Floating	Node 14 Threshold Low Warning				43622-43623	



## Node 15 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 15 Value			33648-33649		
Length = 3, Unsigned	Node 15 State	13648				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 15 Type			33650		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 15 Connection			33651		2 - Wireless Hub
Length = 3, Unsigned	Node 15 in Alarm Down	13649				
Length = 3, Unsigned	Node 15 in Alarm Warning	13650				
Length = 8, Floating	Node 15 Threshold High Down				43648-43649	
Length = 8, Floating	Node 15 Threshold High Warning				43650-43651	
Length = 8, Floating	Node 15 Threshold Low Down				43652-43653	
Length = 8, Floating	Node 15 Threshold Low Warning				43654-43655	



## Node 16 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 16 Value			33680-33681		
Length = 3, Unsigned	Node 16 State	13680				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 16 Type			33682		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 16 Connection			33683		2 - Wireless Hub
Length = 3, Unsigned	Node 16 in Alarm Down	13681				
Length = 3, Unsigned	Node 16 in Alarm Warning	13682				
Length = 8, Floating	Node 16 Threshold High Down				43680-43681	
Length = 8, Floating	Node 16 Threshold High Warning				43682-43683	
Length = 8, Floating	Node 16 Threshold Low Down				43684-43685	
Length = 8, Floating	Node 16 Threshold Low Warning				43686-43687	



## Node 17 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 17 Value			33712-33713		
Length = 3, Unsigned	Node 17 State	13712				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 17 Type			33714		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 17 Connection			33715		2 - Wireless Hub
Length = 3, Unsigned	Node 17 in Alarm Down	13713				
Length = 3, Unsigned	Node 17 in Alarm Warning	13714				
Length = 8, Floating	Node 17 Threshold High Down				43712-43713	
Length = 8, Floating	Node 17 Threshold High Warning				43714-43715	
Length = 8, Floating	Node 17 Threshold Low Down				43716-43717	
Length = 8, Floating	Node 17 Threshold Low Warning				43718-43719	



## Node 18 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 18 Value			33744-33745		
Length = 3, Unsigned	Node 18 State	13744				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 18 Type			33746		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 18 Connection			33747		2 - Wireless Hub
Length = 3, Unsigned	Node 18 in Alarm Down	13745				
Length = 3, Unsigned	Node 18 in Alarm Warning	13746				
Length = 8, Floating	Node 18 Threshold High Down				43744-43745	
Length = 8, Floating	Node 18 Threshold High Warning				43746-43747	
Length = 8, Floating	Node 18 Threshold Low Down				43748-43749	
Length = 8, Floating	Node 18 Threshold Low Warning				43750-43751	



## Node 19 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 19 Value			33776-33777		
Length = 3, Unsigned	Node 19 State	13776				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 19 Type			33778		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 19 Connection			33779		2 - Wireless Hub
Length = 3, Unsigned	Node 19 in Alarm Down	13777				
Length = 3, Unsigned	Node 19 in Alarm Warning	13778				
Length = 8, Floating	Node 19 Threshold High Down				43776-43777	
Length = 8, Floating	Node 19 Threshold High Warning				43778-43779	
Length = 8, Floating	Node 19 Threshold Low Down				43780-43781	
Length = 8, Floating	Node 19 Threshold Low Warning				43782-43783	





## Node 20 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 20 Value			33808-33809		
Length = 3, Unsigned	Node 20 State	13808				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 20 Type			33810		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 20 Connection			33811		2 - Wireless Hub
Length = 3, Unsigned	Node 20 in Alarm Down	13809				
Length = 3, Unsigned	Node 20 in Alarm Warning	13810				
Length = 8, Floating	Node 20 Threshold High Down				43808-43809	
Length = 8, Floating	Node 20 Threshold High Warning				43810-43811	
Length = 8, Floating	Node 20 Threshold Low Down				43812-43813	
Length = 8, Floating	Node 20 Threshold Low Warning				43814-43815	



## Node 21 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 21 Value			33840-33841		
Length = 3, Unsigned	Node 21 State	13840				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 21 Type			33842		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 21 Connection			33843		2 - Wireless Hub
Length = 3, Unsigned	Node 21 in Alarm Down	13841				
Length = 3, Unsigned	Node 21 in Alarm Warning	13842				
Length = 8, Floating	Node 21 Threshold High Down				43840-43841	
Length = 8, Floating	Node 21 Threshold High Warning				43842-43843	
Length = 8, Floating	Node 21 Threshold Low Down				43844-43845	
Length = 8, Floating	Node 21 Threshold Low Warning				43846-43847	



## Node 22 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 22 Value			33872-33873		
Length = 3, Unsigned	Node 22 State	13872				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 22 Type			33874		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 22 Connection			33875		2 - Wireless Hub
Length = 3, Unsigned	Node 22 in Alarm Down	13873				
Length = 3, Unsigned	Node 22 in Alarm Warning	13874				
Length = 8, Floating	Node 22 Threshold High Down				43872-43873	
Length = 8, Floating	Node 22 Threshold High Warning				43874-43875	
Length = 8, Floating	Node 22 Threshold Low Down				43876-43877	
Length = 8, Floating	Node 22 Threshold Low Warning				43878-43879	



## Node 23 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 23 Value			33904-33905		
Length = 3, Unsigned	Node 23 State	13904				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 23 Type			33906		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 23 Connection			33907		2 - Wireless Hub
Length = 3, Unsigned	Node 23 in Alarm Down	13905				
Length = 3, Unsigned	Node 23 in Alarm Warning	13906				
Length = 8, Floating	Node 23 Threshold High Down				43904-43905	
Length = 8, Floating	Node 23 Threshold High Warning				43906-43907	
Length = 8, Floating	Node 23 Threshold Low Down				43908-43909	
Length = 8, Floating	Node 23 Threshold Low Warning				43910-43911	



## Node 24 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 24 Value			33936-33937		
Length = 3, Unsigned	Node 24 State	13936				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 24 Type			33938		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 24 Connection			33939		2 - Wireless Hub
Length = 3, Unsigned	Node 24 in Alarm Down	13937				
Length = 3, Unsigned	Node 24 in Alarm Warning	13938				
Length = 8, Floating	Node 24 Threshold High Down				43936-43937	
Length = 8, Floating	Node 24 Threshold High Warning				43938-43939	
Length = 8, Floating	Node 24 Threshold Low Down				43940-43941	
Length = 8, Floating	Node 24 Threshold Low Warning				43942-43943	



## Node 25 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 25 Value			33968-33969		
Length = 3, Unsigned	Node 25 State	13968				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 25 Type			33970		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 25 Connection			33971		2 - Wireless Hub
Length = 3, Unsigned	Node 25 in Alarm Down	13969				
Length = 3, Unsigned	Node 25 in Alarm Warning	13970				
Length = 8, Floating	Node 25 Threshold High Down				43968-43969	
Length = 8, Floating	Node 25 Threshold High Warning				43970-43971	
Length = 8, Floating	Node 25 Threshold Low Down				43972-43973	
Length = 8, Floating	Node 25 Threshold Low Warning				43974-43975	



## Node 26 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 26 Value			34000-34001		
Length = 3, Unsigned	Node 26 State	14000				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 26 Type			34002		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 26 Connection			34003		2 - Wireless Hub
Length = 3, Unsigned	Node 26 in Alarm Down	14001				
Length = 3, Unsigned	Node 26 in Alarm Warning	14002				
Length = 8, Floating	Node 26 Threshold High Down				44000-44001	
Length = 8, Floating	Node 26 Threshold High Warning				44002-44003	
Length = 8, Floating	Node 26 Threshold Low Down				44004-44005	
Length = 8, Floating	Node 26 Threshold Low Warning				44006-44007	



## Node 27 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 27 Value			34032-34033		
Length = 3, Unsigned	Node 27 State	14032				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 27 Type			34034		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 27 Connection			34035		2 - Wireless Hub
Length = 3, Unsigned	Node 27 in Alarm Down	14033				
Length = 3, Unsigned	Node 27 in Alarm Warning	14034				
Length = 8, Floating	Node 27 Threshold High Down				44032-44033	
Length = 8, Floating	Node 27 Threshold High Warning				44034-44035	
Length = 8, Floating	Node 27 Threshold Low Down				44036-44037	
Length = 8, Floating	Node 27 Threshold Low Warning				44038-44039	





## Node 28 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 28 Value			34064-34065		
Length = 3, Unsigned	Node 28 State	14064				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 28 Type			34066		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 28 Connection			34067		2 - Wireless Hub
Length = 3, Unsigned	Node 28 in Alarm Down	14065				
Length = 3, Unsigned	Node 28 in Alarm Warning	14066				
Length = 8, Floating	Node 28 Threshold High Down				44064-44065	
Length = 8, Floating	Node 28 Threshold High Warning				44066-44067	
Length = 8, Floating	Node 28 Threshold Low Down				44068-44069	
Length = 8, Floating	Node 28 Threshold Low Warning				44070-44071	



## Node 29 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 29 Value			34096-34097		
Length = 3, Unsigned	Node 29 State	14096				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 29 Type			34098		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 29 Connection			34099		2 - Wireless Hub
Length = 3, Unsigned	Node 29 in Alarm Down	14097				
Length = 3, Unsigned	Node 29 in Alarm Warning	14098				
Length = 8, Floating	Node 29 Threshold High Down				44096-44097	
Length = 8, Floating	Node 29 Threshold High Warning				44098-44099	
Length = 8, Floating	Node 29 Threshold Low Down				44100-44101	
Length = 8, Floating	Node 29 Threshold Low Warning				44102-44103	



## Node 30 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 30 Value			34128-34129		
Length = 3, Unsigned	Node 30 State	14128				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 30 Type			34130		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 30 Connection			34131		2 - Wireless Hub
Length = 3, Unsigned	Node 30 in Alarm Down	14129				
Length = 3, Unsigned	Node 30 in Alarm Warning	14130				
Length = 8, Floating	Node 30 Threshold High Down				44128-44129	
Length = 8, Floating	Node 30 Threshold High Warning				44130-44131	
Length = 8, Floating	Node 30 Threshold Low Down				44132-44133	
Length = 8, Floating	Node 30 Threshold Low Warning				44134-44135	



## Node 31 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 31 Value			34160-34161		
Length = 3, Unsigned	Node 31 State	14160				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 31 Type			34162		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 31 Connection			34163		2 - Wireless Hub
Length = 3, Unsigned	Node 31 in Alarm Down	14161				
Length = 3, Unsigned	Node 31 in Alarm Warning	14162				
Length = 8, Floating	Node 31 Threshold High Down				44160-44161	
Length = 8, Floating	Node 31 Threshold High Warning				44162-44163	
Length = 8, Floating	Node 31 Threshold Low Down				44164-44165	
Length = 8, Floating	Node 31 Threshold Low Warning				44166-44167	



## Node 32 Registers

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Floating	Node 32 Value			34192-34193		
Length = 3, Unsigned	Node 32 State	14192				0 - Offline, 1 - Online
Length = 4, Unsigned	Node 32 Type			34194		1 - Wireless Temperature 2 - Wireless Humidity
Length = 4, Unsigned	Node 32 Connection			34195		2 - Wireless Hub
Length = 3, Unsigned	Node 32 in Alarm Down	14193				
Length = 3, Unsigned	Node 32 in Alarm Warning	14194				
Length = 8, Floating	Node 32 Threshold High Down				44192-44193	
Length = 8, Floating	Node 32 Threshold High Warning				44194-44195	
Length = 8, Floating	Node 32 Threshold Low Down				44196-44197	
Length = 8, Floating	Node 32 Threshold Low Warning				44198-44199	



## 3.3 Sensorhub Input Register List

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Input 1 State			30001		
Length = 4, Unsigned	Input 1 in Alarm	10001				
Length = 4, Unsigned	Input 1 Control		1			
Length = 4, Unsigned	Input 2 State			30002		
Length = 4, Unsigned	Input 2 in Alarm	10002				
Length = 4, Unsigned	Input 2 Control		2			
Length = 4, Unsigned	Input 3 State			30003		
Length = 4, Unsigned	Input 3 in Alarm	10003				
Length = 4, Unsigned	Input 3 Control		3			
Length = 4, Unsigned	Input 4 State			30004		
Length = 4, Unsigned	Input 4 in Alarm	10004				
Length = 4, Unsigned	Input 4 Control		4			



## 3.4 Sensorhub Output Register List

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Output 1 State			30100		0 - Off, 1 - On
Length = 4, Unsigned	Output 1 in Alarm	10100				0 - Off, 1 - On
Length = 4, Unsigned	Output 1 Control		100			0 - Off, 1 - On
Length = 4, Unsigned	Output 2 State			30101		0 - Off, 1 - On
Length = 4, Unsigned	Output 2 in Alarm	10101				0 - Off, 1 - On
Length = 4, Unsigned	Output 2 Control		101			0 - Off, 1 - On
Length = 4, Unsigned	Output 3 State			30102		0 - Off, 1 - On
Length = 4, Unsigned	Output 3 in Alarm	10102				0 - Off, 1 - On
Length = 4, Unsigned	Output 3 Control		102			0 - Off, 1 - On
Length = 4, Unsigned	Output 4 State			30103		0 - Off, 1 - On
Length = 4, Unsigned	Output 4 in Alarm	10103				0 - Off, 1 - On
Length = 4, Unsigned	Output 4 Control		103			0 - Off, 1 - On



## 3.5 Sensorhub Relay Register List

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 2, Unsigned	Relay 1 State			30150		0 - Off, 1 - On
Length = 2, Unsigned	Relay 1 in Alarm	10150				0 - Off, 1 - On
Length = 2, Unsigned	Relay 1 Control		150			0 - Off, 1 - On
Length = 2, Unsigned	Relay 2 State			30151		0 - Off, 1 - On
Length = 2, Unsigned	Relay 2 in Alarm	10151				0 - Off, 1 - On
Length = 2, Unsigned	Relay 2 Control		151			0 - Off, 1 - On





## 3.6 I/O Sensor Probe Input Register List

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 16, Unsigned	Input 1 State			30001		0 - Open, 1 - Close
Length = 16, Unsigned	Input 1 in Alarm	10001				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 2 State			30002		0 - Open, 1 - Close
Length = 16, Unsigned	Input 2 in Alarm	10002				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 3 State			30003		0 - Open, 1 - Close
Length = 16, Unsigned	Input 3 in Alarm	10003				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 4 State			30004		0 - Open, 1 - Close
Length = 16, Unsigned	Input 4 in Alarm	10004				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 5 State			30005		0 - Open, 1 - Close
Length = 16, Unsigned	Input 5 in Alarm	10005				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 6 State			30006		0 - Open, 1 - Close
Length = 16, Unsigned	Input 6 in Alarm	10006				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 7 State			30007		0 - Open, 1 - Close
Length = 16, Unsigned	Input 7 in Alarm	10007				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 8 State			30008		0 - Open, 1 - Close
Length = 16, Unsigned	Input 8 in Alarm	10008				0 - Ok, 1 - Triggered



Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 16, Unsigned	Input 9 State			30009		0 - Open, 1 - Close
Length = 16, Unsigned	Input 9 in Alarm	10009				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 10 State			30010		0 - Open, 1 - Close
Length = 16, Unsigned	Input 10 in Alarm	10010				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 11 State			30011		0 - Open, 1 - Close
Length = 16, Unsigned	Input 11 in Alarm	10011				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 12 State			30012		0 - Open, 1 - Close
Length = 16, Unsigned	Input 12 in Alarm	10012				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 13 State			30013		0 - Open, 1 - Close
Length = 16, Unsigned	Input 13 in Alarm	10013				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 14 State			30014		0 - Open, 1 - Close
Length = 16, Unsigned	Input 14 in Alarm	10014				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 15 State			30015		0 - Open, 1 - Close
Length = 16, Unsigned	Input 15 in Alarm	10015				0 - Ok, 1 - Triggered
Length = 16, Unsigned	Input 16 State			30016		0 - Open, 1 - Close
Length = 16, Unsigned	Input 16 in Alarm	10016				0 - Ok, 1 - Triggered



## 3.7 I/O Sensor Probe Output Register List

Length and Type	Data Label	Status	Coils	Input Register	Holding Register	Notes:
Length = 4, Unsigned	Output 1 State			30100		0 - off, 1 - on
Length = 4, Unsigned	Output 1 in Alarm	10100				0 - off, 1 - on
Length = 4, Unsigned	Output 1 Control		100			0 - off, 1 - on
Length = 4, Unsigned	Output 2 State			30101		0 - off, 1 - on
Length = 4, Unsigned	Output 2 in Alarm	10101				0 - off, 1 - on
Length = 4, Unsigned	Output 2 Control		101			0 - off, 1 - on
Length = 4, Unsigned	Output 3 State			30102		0 - off, 1 - on
Length = 4, Unsigned	Output 3 in Alarm	10102				0 - off, 1 - on
Length = 4, Unsigned	Output 3 Control		102			0 - off, 1 - on
Length = 4, Unsigned	Output 4 State			30103		0 - off, 1 - on
Length = 4, Unsigned	Output 4 in Alarm	10103				0 - off, 1 - on
Length = 4, Unsigned	Output 4 Control		103			0 - off, 1 - on



## 4. How to Read Registers

We will be using Modbus Poll as an example to generate the values from the Register Table. Modbus poll is a freeware downloadable over the web.

1. Set up an IP address first for the Sensorgateway and enable Modbus Settings as described on **Section 2.2** of this manual.

2. Once done, open Modbus Poll

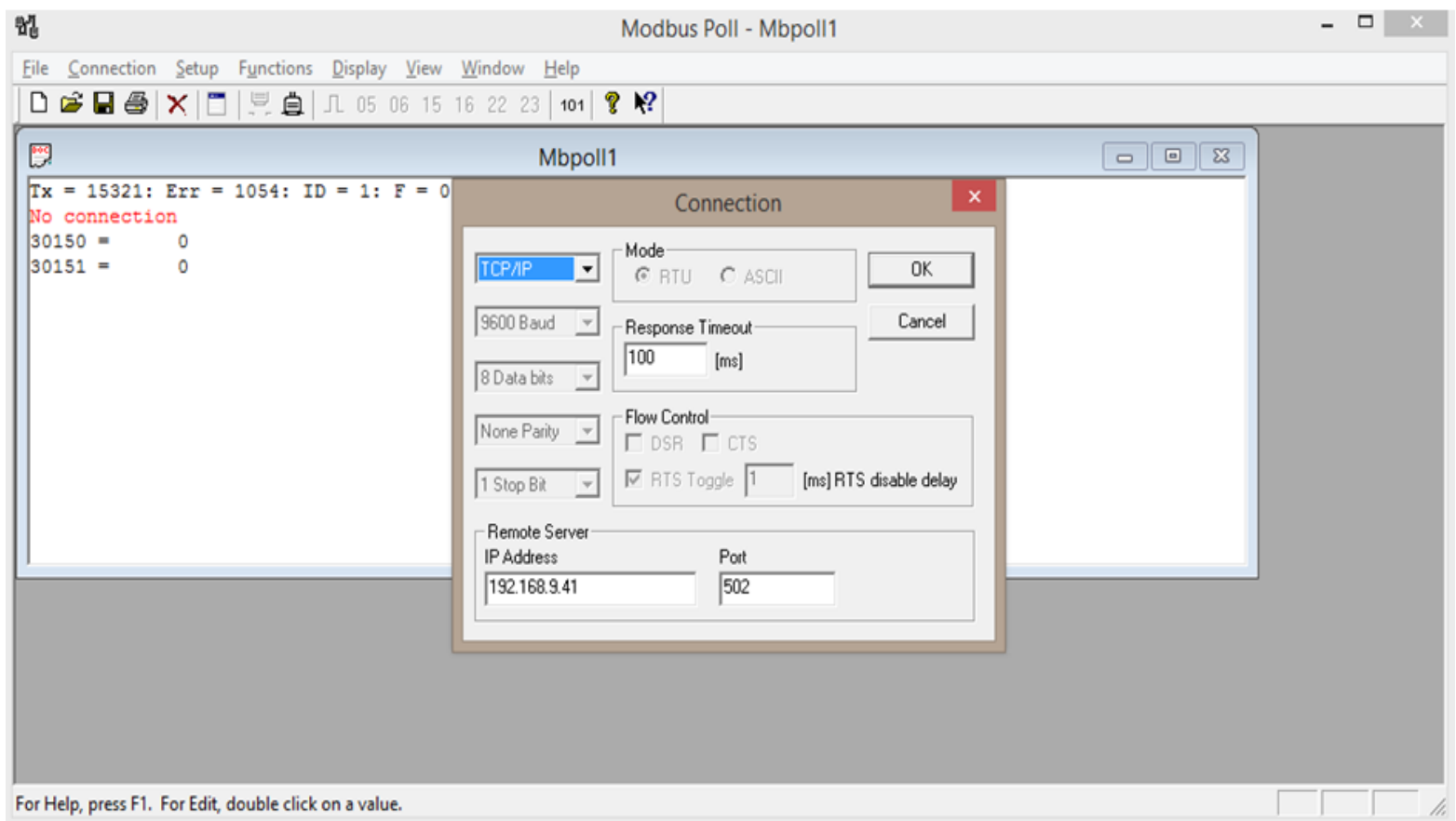
3. Go to Connection - Connect

Select TCP/IP

Set the IP address. This is the IP address you have set on the Sensorgateway

Port - By default Port is 502

Click OK.





## 4. Go to Setup - Poll Definition

Setup the Slave ID. This is the Modbus ID option on Modbus tab of the Sensorgateway web interface.

Select the Function one will need to read based on the Registers List

- Coil Status
- Input Status
- Holding Register
- Input Register

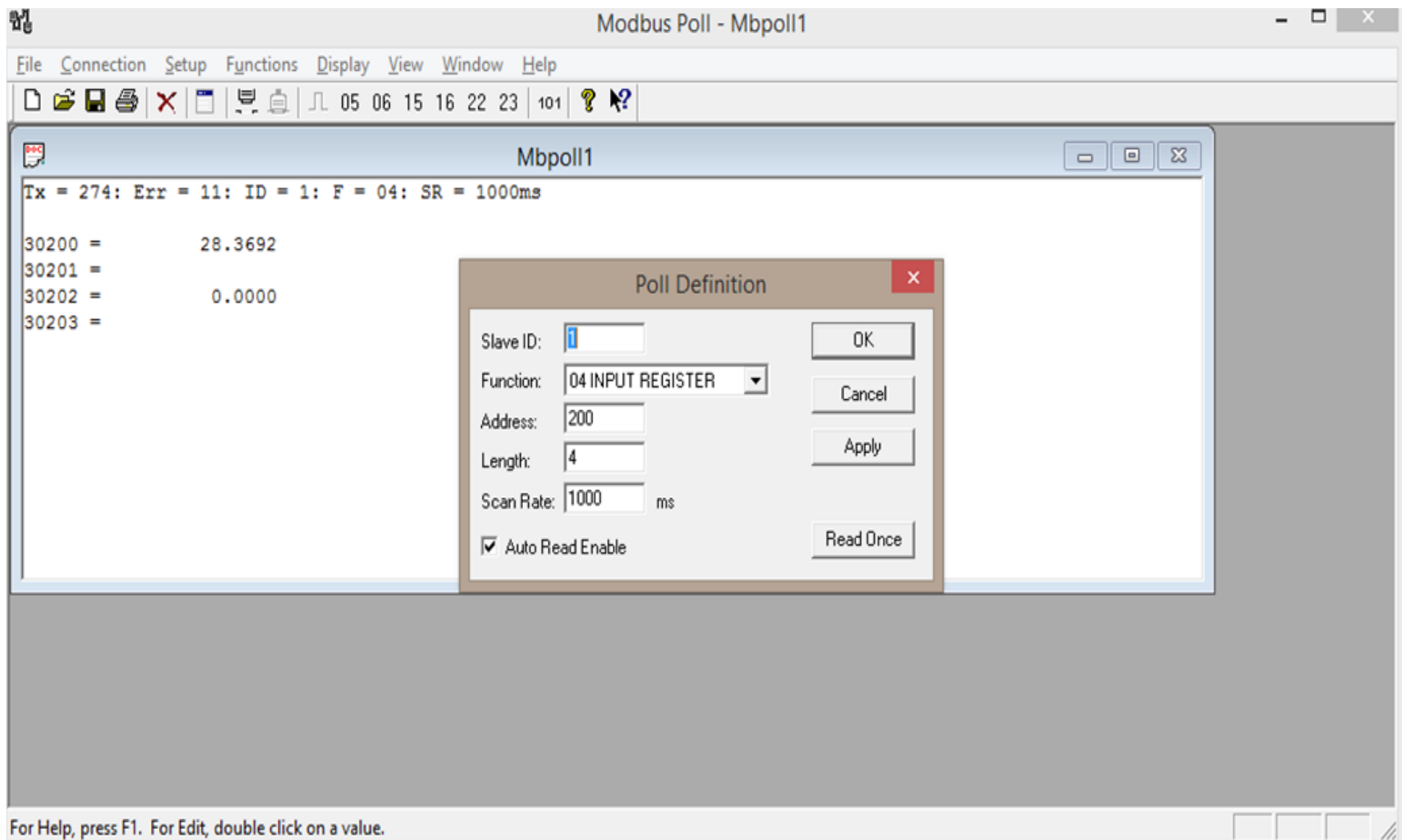
Select the Address. This will be the starting address of the register point that one will read.

Select the length. This is under the Column Length and Type on the Table.

Select Scan Rate. Any number between 50 to 60000.

As an example, we want to read the 30200 point which is the internal temperature of the sensorgateway

**Here are the settings:**





Once you have retrieved values, go to Display and select the applicable Value Type of the Register that you will get the value.

In this example, it is a Floating Value.

