

Registers List

Register Address	Register Length	Register_Name	Operation	Data_Format	Description
0	4	MODBUS_SERIALNUMBER	03 Read Holding Registers (4x)	32 Bit Unsigned Integer LO_HI	serial number
4	2	MODBUS_FIRMWARE_VERSION	03 Read Holding Registers (4x)	32 Bit Unsigned Integer LO_HI	firmware Version
6	1	MODBUS_ADDRESS	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	Modbus device address
7	1	MODBUS_PRODUCT_MODEL	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	Product model
8	1	MODBUS_HARDWARE_REV	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	Hardware Version Number
15	1	MODBUS_BAUDRATE	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	0=9600, 1=19200, 2=38400, 3=57600, 4=115200, 5=76800
21	1	MODBUS_PROTOCOL_SWITCH	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	3 = MODBUS, 0=MSTP.
37	1	MODBUS_INSTANCE_LOWORD	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	BACNET_INSTANCE_LOWORD
38	1	MODBUS_INSTANCE_HIWORD	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	BACNET_INSTANCE_HIWORD
39	1	MODBUS_STATION_NUMBER	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	BACNET_STATION_NUMBER
40	1	MODBUS_MAC_ADDRESS_1	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
41	1	MODBUS_MAC_ADDRESS_2	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
42	1	MODBUS_MAC_ADDRESS_3	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
43	1	MODBUS_MAC_ADDRESS_4	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
44	1	MODBUS_MAC_ADDRESS_5	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
45	1	MODBUS_MAC_ADDRESS_6	03 Read Holding Registers (4x)	8 Bit Unsigned Integer	MAC_ADDRESS
46	1	MODBUS_IP_MODE	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	0=static IP; 1= DHCP
47	1	MODBUS_IP_ADDRESS_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	IP_ADDRESS
48	1	MODBUS_IP_ADDRESS_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	IP_ADDRESS
49	1	MODBUS_IP_ADDRESS_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	IP_ADDRESS
50	1	MODBUS_IP_ADDRESS_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	IP_ADDRESS
51	1	MODBUS_SUBNET_MASK_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	SUBNET_MASK
52	1	MODBUS_SUBNET_MASK_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	SUBNET_MASK
53	1	MODBUS_SUBNET_MASK_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	SUBNET_MASK
54	1	MODBUS_SUBNET_MASK_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	SUBNET_MASK
55	1	MODBUS_GATEWAY_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GATEWAY
56	1	MODBUS_GATEWAY_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GATEWAY
57	1	MODBUS_GATEWAY_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GATEWAY
58	1	MODBUS_GATEWAY_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GATEWAY
61	1	MODBUS_GHOST_IP_MODE	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_IP_MODE
62	1	MODBUS_GHOST_IP_ADDRESS_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_IP_ADDRESS
63	1	MODBUS_GHOST_IP_ADDRESS_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_IP_ADDRESS
64	1	MODBUS_GHOST_IP_ADDRESS_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_IP_ADDRESS
65	1	MODBUS_GHOST_IP_ADDRESS_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_IP_ADDRESS
66	1	MODBUS_GHOST_SUBNET_MASK_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_SUBNET
67	1	MODBUS_GHOST_SUBNET_MASK_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_SUBNET
68	1	MODBUS_GHOST_SUBNET_MASK_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_SUBNET
69	1	MODBUS_GHOST_SUBNET_MASK_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_SUBNET
70	1	MODBUS_GHOST_GATEWAY_1	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_GATEWAY
71	1	MODBUS_GHOST_GATEWAY_2	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_GATEWAY
72	1	MODBUS_GHOST_GATEWAY_3	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_GATEWAY
73	1	MODBUS_GHOST_GATEWAY_4	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	GHOST_GATEWAY
75	1	MODBUS_GHOST_LISTEN_PORT	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	GHOST_LISTEN_PORT
76	1	MODBUS_WRITE_GHOST_SYSTEM	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	1=WRITE_GHOST_SYSTEM
201	1	MODBUS_TEMPERATURE_DEGREE_C_OR_F	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	Temperature display unit , 0= CELSIUS DEGREE , 1= FAHRENHEIT DEGREE
204	1	MODBUS_TEMPERATURE_CELSIUS	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	Temperature at celsius
205	1	MODBUS_TEMPERATURE_FAHRENHEIT	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	Temperature at fahrenheit
207	1	MODBUS_HUMIDITY	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	RH humidity

211	1	MODBUS_CO2	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	CO2
212	1	MODBUS_CO2_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 offset
213	1	MODBUS_CO2_PREALARM_SETPOINT	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 previous alarm setpoint
214	1	MODBUS_CO2_ALARM_SETPOINT	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 alarm setpoint
1232	1	MODBUS_CO2_FILTER	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	CO2 filter
1239	1	MODBUS_RTC_YEAR	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	YEAR
1240	1	MODBUS_RTC_MONTH	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	MONTH
1241	1	MODBUS_RTC_DAY	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	DAY
1242	1	MODBUS_RTC_WEEK	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	WEEK
1243	1	MODBUS_RTC_HOUR	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	HOUR
1244	1	MODBUS_RTC_MINUTE	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	MINUTE
1245	1	MODBUS_RTC_SECOND	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	SECOND
1255	1	MODBUS_OUTPUT_RANGE_MIN_TEM	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	Temperature output range MIX default value:0°C
1256	1	MODBUS_OUTPUT_RANGE_MAX_TEM	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	Temperature output range MAX default value:100°C
1257	1	MODBUS_OUTPUT_RANGE_MIN_HUM	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	Humidity output range MIX default value: 0% RH
1258	1	MODBUS_OUTPUT_RANGE_MAX_HUM	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	Humidity output range MAX default value: 100% RH
1259	1	MODBUS_OUTPUT_RANGE_MIN_CO2	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 output range MIX default value: 0 PPM
1260	1	MODBUS_OUTPUT_RANGE_MAX_CO2	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 output range MAX default value: 2000 PPM
1262	1	MODBUS_BACKLIGHT_KEEP_SECONDS	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	0:OFF , 255:ON , 1--254 :ON Timer left Unit: Second
3001	1	MODBUS_TEMPRATURE_FILTER	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	TEMPERATURE FILTER
3002	1	MODBUS_HUIDITY_FILTER	03_06 Read Holding and Write Single	8 Bit Unsigned Integer	HUMIDITY FILTER
3049	1	MODBUS_DEW_PT	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	unit. °C
3050	1	MODBUS_DEW_PT_F	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	unit. °F
3053	1	MODBUS_PWS	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	unit.hPa
3054	1	MODBUS_MIX_RATIO	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	unit.g/kg
3055	1	MODBUS_ENTHALPY	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	unit.kJ/kg
3056	1	MODBUS_TEMP_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	TEMPERATURE OFFSET
3057	1	MODBUS_HUM_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	HUMIDITY OFFSET
3066	1	MODBUS_OUTPUT_HUM	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	HUMIDITY OUTPUT
3067	1	MODBUS_OUTPUT_TEMP	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	TEMPERATURE OUTPUT
3068	1	MODBUS_OUTPUT_CO2	03 Read Holding Registers (4x)	16 Bit Unsigned Integer	CO2 OUTPUT
3070	1	MODBUS_OUTPUT_HUM_VOL_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	HUMIDITY VOLTAGE OFFSET
3071	1	MODBUS_OUTPUT_TEMP_VOL_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	TEMPERATURE VOLTAGE OFFSET
3072	1	MODBUS_OUTPUT_CO2_VOL_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 VOLTAGE OFFSET
3073	1	MODBUS_OUTPUT_HUM_CUR_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	HUMIDITY CURRENT OFFSET
3074	1	MODBUS_OUTPUT_TEMP_CUR_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	TEMPERATURE CURRENT OFFSET
3075	1	MODBUS_OUTPUT_CO2_CUR_OFFSET	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	CO2 CURRENT OFFSET
3141	1	MODBUS_CO2_FORCED_RE-CALIBRATION	03_06 Read Holding and Write Single	16 Bit Unsigned Integer	<p>Sensirion CO2 sensor RE-CALIBRATION :</p> <p>Locate the device in an environment with air having a stable CO2 concentration in the range of 400 ppm to 2000 ppm.</p> <ol style="list-style-type: none"> Setting and controlling a known CO2 concentration in a sealed environment with the set CO2concentration acting as the reference value for FRC . Fresh air from the outside can be used as a reference. Outside air typically has a CO2 concentration of 400 ppm . expose the device to outside air, e.g. by placing it close to an open window or outside. Direct sun light, extreme temperatures,and strong air flow have to be prevented,After 5 minutes, apply FRC with the reference value 400 ppm .
Objects List					

	Object	Description		
	Analog Inut 1	Temperature		
	Analog Inut 2	Humidity		
	Analog Inut 3	CO2		
	Analog Output 1	Temperature		
	Analog Output 2	Humidity		
	Analog Output 3	CO2		
	Variable1	Serial Number Low Byte		
	Variable2	Serial Number High Byte		
	Variable3	SoftWare Version		
	Variable4	Device ID		
	Variable5	Product Model		
	Variable6	Instance		
	Variable7	Station number		
	Variable8	Uart BaudRate.0=9600,1=19200, 2=38400 ,3=57600 ,4=115200		
	Variable9	Update Status		
	Variable10	Protocol 0=MSTP ,3=Modbus		
	Variable11	OUTPUT AUTO MANUAL		
	Variable12	Dew point temperature (unit.°C)		
	Variable13	PWS (unit.hPa)		
	Variable14	MIX RATIO (unit.g/kg)		
	Variable15	ENTHALPY (unit.kJ/kg)		
	Variable16	Humidity offset		
	Variable17	Temperature offset		
	Variable18	CO2 offset		
	Variable19	Humidity filter		
	Variable20	Temperature filter		
	Variable21	CO2 filter		
	Variable22	Temperature Unit.0=°C ,1=°F		
	Variable23	Analog Out Mode.1=0-10v,2=0-5v,3=4-20mA		
	Variable24	Temperature output range MIX default value:0°C		
	Variable25	Temperature output range MAX default value:100°C		
	Variable26	Humidity output range MIX default value: 0% RH		
	Variable27	Humidity output range MAX default value:100% RH		
	Variable28	CO2 output range MIX default value: 0 PPM		
	Variable29	CO2 output range MAX default value:2000PPM		