SENSAPHONE®

REMOTE MONITORING SOLUTIONS

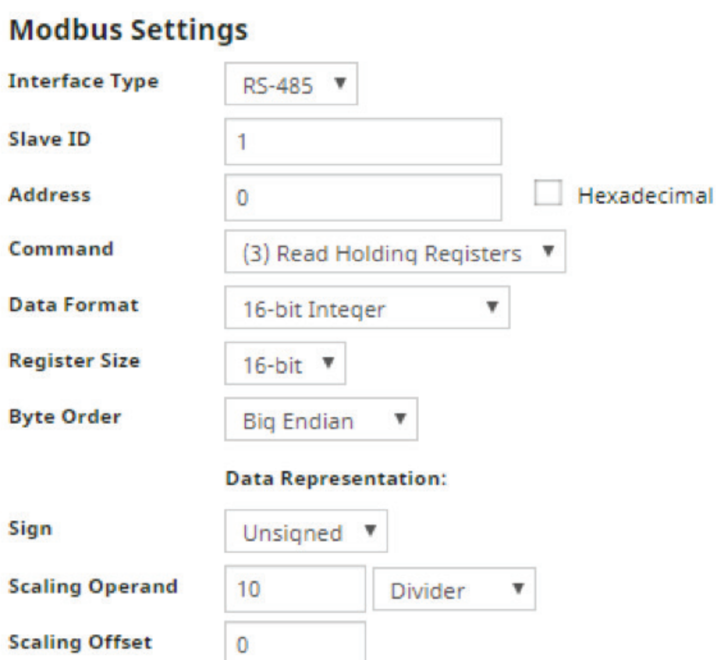
Temperature, Humidity, and CO2 Combination Sensor for Modbus - FGD-0111-MB
Installation Instructions for connecting to Sentinel Pro and Stratus EMS

1. Connect a 24VDC/VAC power supply to the PWR and COM terminals.
2. Connect the RS485 terminals according to the diagram below:

Sentinel Pro/Stratus EMS	FGD-0111-MB
D+	B+
D-	A-
GND	SHLD

3. The default Baud Rate for the FGD-0111 is 9600bps. Configure the Sentinel Pro or Stratus to match. If necessary, the baud rate can be changed by pressing the 'Menu' button until the baud rate setting is displayed, then use the 'Up/Down' buttons to change the value. To exit the menu, keep pressing the 'Menu' button until the current Temp, Humidity and CO2 values are displayed.
4. The default Modbus Slave address is 1. If necessary, this can be changed by pressing the 'Menu' button until the Modbus Address is displayed, then use the 'Up/Down' buttons to change the value. To exit the menu, keep pressing the 'Menu' button until the current Temp, Humidity and CO2 values are displayed.
5. Use the Modbus settings below on the Sensaphone.net website or App to read the sensor values:

Temperature



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Humidity

Modbus Settings

Interface Type	RS-485 ▼
Slave ID	1
Address	1 ☐ Hexadec
Command	(3) Read Holding Registers ▼
Data Format	16-bit Integer ▼
Register Size	16-bit ▼
Byte Order	Big Endian ▼
	Data Representation:
Sign	Unsigned ▼
Scaling Operand	10 Divider ▼
Scaling Offset	0

CO_2

Modbus Settings

Interface Type	RS-485 ▼
Slave ID	1
Address	2 ☐ Hexadecimal
Command	(3) Read Holding Registers ▼
Data Format	16-bit Integer ▼
Register Size	16-bit ▼
Byte Order	Big Endian ▼
	Data Representation:
Sign	Unsigned ▼
Scaling Operand	1 Multiplier ▼
Scaling Offset	0