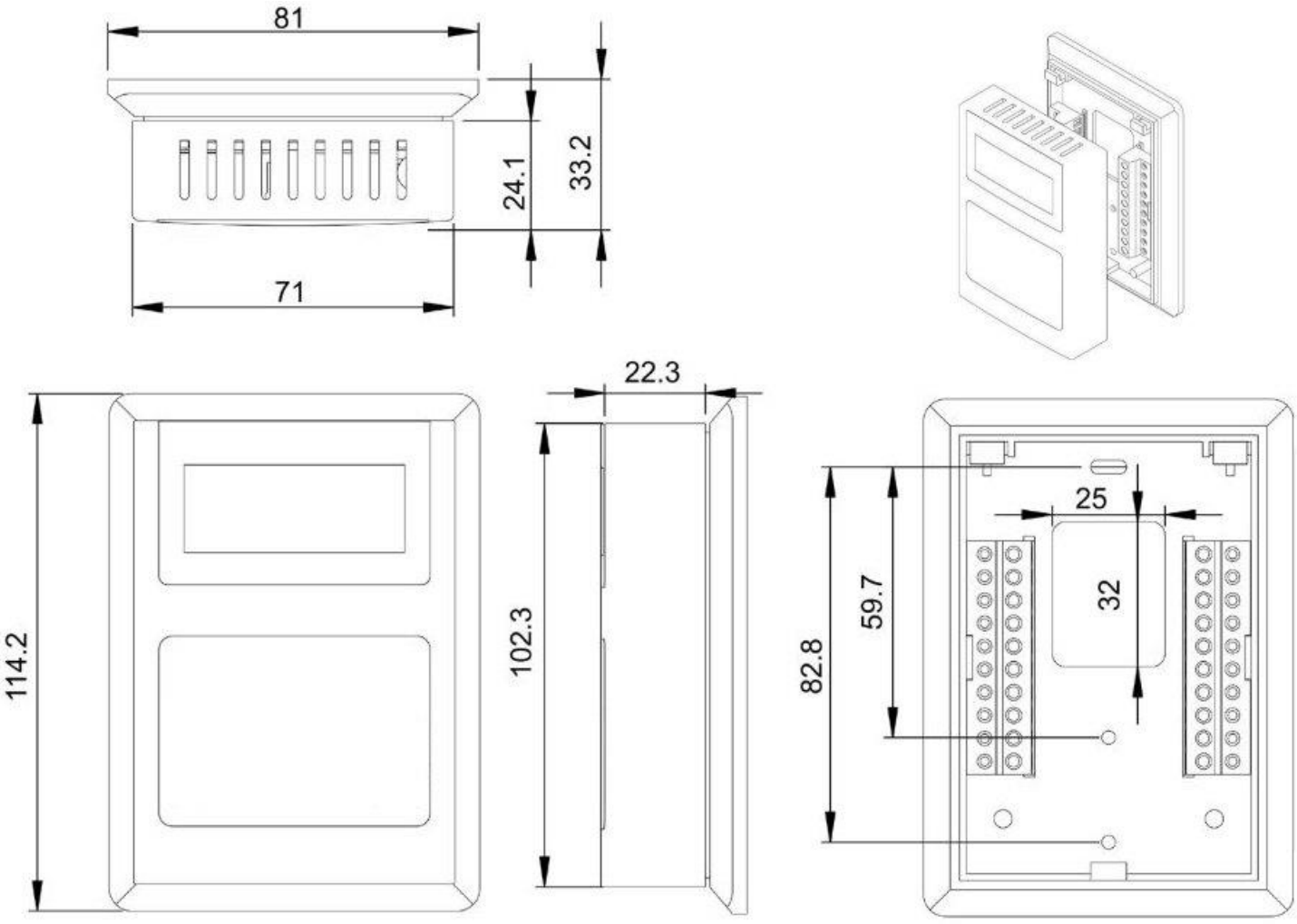
MBUS_RTH_LCD Tech Specs

Features:

- High Impact Plastic Enclosure provides durability in Industrial Environments
- Low Power Consumption
- Temperature and Humidity readings from a single sensor
- Network RS485 Communication via Modbus RTU
- Built-in 0-10V transducers to convert the sensor readings to analog outputs.
- Back-lit LCD Display

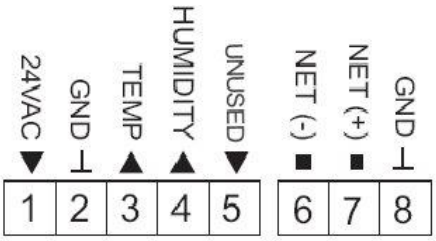
Supply voltage	12~24VAC +/- 20%, 50-60Hz: 12-24VDC +/- 20%
Power consumption	55mA at 24Vdc
Operation	5-50°C (40-122°F)
Ambient humidity range	0-95%Rh non condensing
Material, enclosure	Flame proof plastic
Enclosure rating	IP31
Temperature sensor	10K thermistor (± 0.5°C Accuracy)
Color	White/Off-white
Weight	200g



(dimensions shown in mm)

External wiring is connected to a terminal block on the back of the sensor.

1	24VAC live or + 12-24VDC
2	24VAC / 24VDC Common / Measurement neutral
3	Temperature Analog output 0-10V
4	Humidity Analog output 0-10V
5	Unused
6,7,8	Network communication



MODBUS Registers.

- Communication defaults: RS485 at 19200, 8, None, 1

REG	BYTES	RANGE	DEFAULT	DESCRIPTION
6	1	0-255	254	ADDRESS. Modbus device address
100	2	0-3000	- -	**ROOM TEMPERATURE reading in DegF x 10**
101	2	0-3000	- -	**ROOM TEMPERATURE reading in DegC x 10**
102	2	0-1000	- -	**ROOM HUMIDITY reading in %RH x 10**
121	1	0-1	0	0=DegC, 1=DegF
185	1	0-1	1	Baudrate: 0=9600, 1=19200
304	2	0-1000	- -	Humidity Sensor reading
312	2	0-1000	- -	humidity calibration RH value # 1
313	2	0-10000	- -	humidity calibration Sampling value # 1
314	2	0-1000	- -	humidity calibration RH value # 2
315	2	0-10000	- -	humidity calibration Sampling value # 2
.				
.				
330	2	0-1000	- -	humidity calibration RH value # 10
331	2	0-10000	- -	humidity calibration Sampling value # 10