
THYGRO: TEMPERATURE-HUMIDITY SENSOR

ADVANTAGES

- Calibration free
- Ready to use
- Precise humidity measurement
- Drift stable thanks to wide sensor area
- Two options of *humidity sensor output*:
 - 0 to 1V span output (0...100% RH)
 - 0 to 5V span output (0...100% RH)



SENSOR INPUT

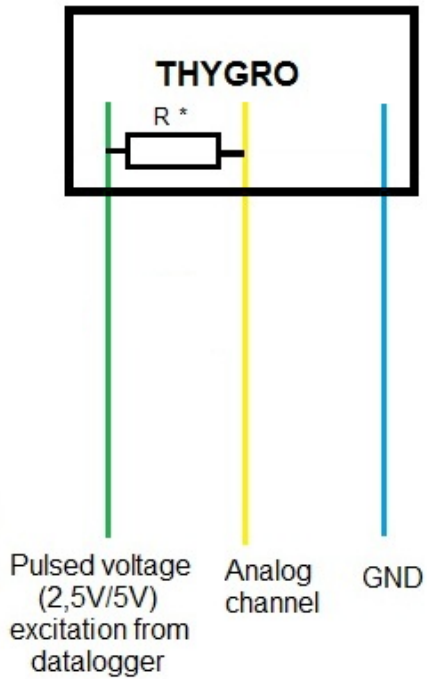
- *Measurement principle*: Capacitive humidity sensor
- *Mechanical dimensions*: H=110 mm, W=75 mm
- *Humidity measurement range*: 0 ... 100 % RH (max. DP = 85 deg C)
- *Operating temperature range*: - 25 ... +85 deg C
- *Operating voltage*: 8...30 Volts DC = (recommended 9 Volts)
- *Current consumption*: < 3 mA
- *Temperature sensor*: PT1000
- Voltage (20 K Ω / 3.85 K Ω Resistor included) or current excitation capability.
- *Storage temperature range*: -40...+100 deg C / @ max. 95 % RH non condensing
- *Accuracy*: < 3 % RH (15 ... 85 % RH @ 23 degC)
- *Cable length*: 2m

CONNECTIONS

- Red wire: Humidity sensor Power Supply (8 V to 30 V DC)
- Black wire: GND (for power supply and humidity sensor)
- White wire: Humidity output signal.
- Green wire: Voltage Excitation for temperature sensor (see diagram below)
- Yellow wire: 'PT1000+' pin and Current Excitation for temperature sensor (see diagram below)
- Blue wire: 'PT1000-' pin and GND

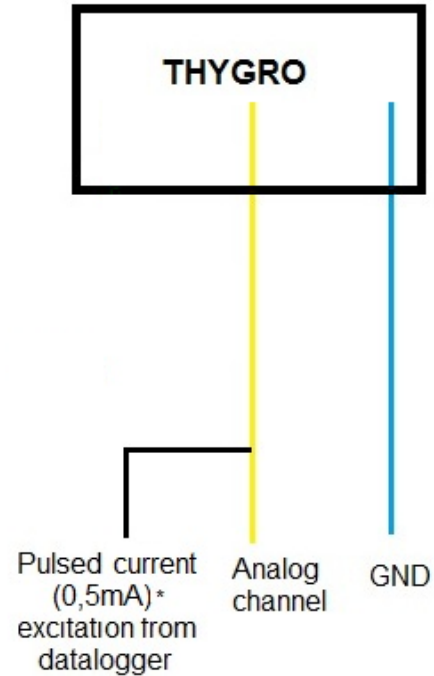
TEMPERATURE SENSOR CONNECTION OPTIONS

VOLTAGE EXCITATION OPTION



* R=20K Ω , for **Stylitis-10/Stylitis-101**
R=3,85K Ω , for **Stylitis-41/Stylitis-50**

CURRENT EXCITATION OPTION



* **Stylitis-10**: AUX pin
Stylitis-101: programmable at 0,5mA (use Card-14)
Stylitis-50: current excitation included
(connect yellow cable only to A9 or A10)