

Temperature and Pressure sensors G1/4" mounting with BeanDevice® AN-420

May 2023 - Shimon Abadi Document Version V1.0 Technical Support Engineer tech-support@beanair.com

BeanAir Temperature Sensor specifications and Design



The temperature sensor is configured 4-20 mA 3-wires:

PIN1 – Sensor powerPIN2 - GroundPin3 – sensor signal output

In this example we are using a temperature sensor with a range of -20 °C to 120 °C

BeanAir Pressure Sensor specifications and Design



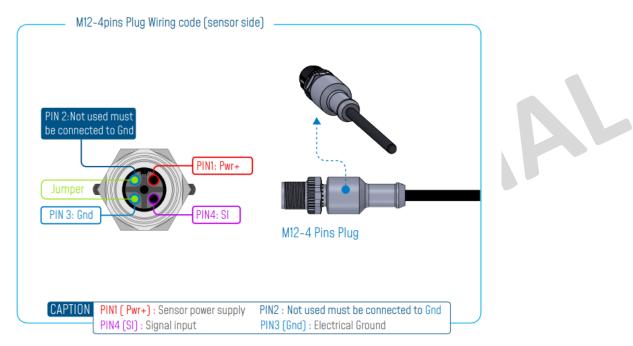
The temperature sensor is configured 4-20 mA - 2-wires:

PIN1 – +Ub is the Sensor power Pin2 – GND corresponds to the Sensor Loop Return

In this example we are using a temperature sensor with a range of 0 to 25 bar



Sensor Wiring code



4-20 mA /3-wires /Wiring Code

PIN1 (Pwr+): Sensor power supply PIN4 (Sens+): Sensor input for sensor PIN2 : Must be connected to the ground PIN3 (Gnd): Electrical Ground

4-20 mA /2-wires /Wiring Code

PIN1 (Pwr+): Sensor power supply PIN4 (Sens+): Sensor input for sensor PIN2 : Must be connected to the ground PIN3 (Gnd): Electrical Ground (not connected to sensor)

BeanAir Sensor configuration from BeanScape® software

| BeanDevice system profile | | | |
|---|----------------------------------|-------------------------------------|--------------------------|
| Identity | Network Diagnostic | System | Sensor Voltage is |
| Mac Id: 00158D00000E14D2 | Network quality: | Diagnostic cycle: 00:00:50 hh:mm:ss | displayed here |
| Site ID: MAC_ID : 0 x 00158D00000EI4 | PER: 0.00 % | Listening cycle: 00:00:01 hh:mm:ss | |
| Pan Id: 02B5 | Power Supply Diagnostic | Sensor Info | |
| Net Id: 0009 | Diag. Date: 5/8/2023 10:47:58 PM | Sensor Voltage: 14.000 V | |
| Platform: AN 4-20 mA | Internal Temp.: 26.000 °C | Wake up duration: 40 ms | |
| Version | Power supply: Bat | | |
| Hard. vers. VIR8 | Power mode: Bat Saver Disabled | | |
| Soft. vers. V7R10 | Battery Voltage: 3.933 | | |
| | Battery level: Good | | |
| Batalogger Batalogger Status: Ready Memory pation: "Stop at end" recording Memory used: % The sensor can be powered | | | |
| | | | |
| BeanDevice Remote Config. Status between 12-34VDC for | | | |
| Pending Sent Deleted | Datalogger System conf | | Temperature and 12-30VDC |
| Current data acq. mode | Custom display Notes | Data Acq. config. DAQ Config | for pressure sensor . |
| DAQ Status : Stopped | External sensor configuration | | You can for example |
| Data Acq. mode: NA | Excitation voltage (Volts) | 14 Validate | configure a Voltage of |
| | hh:mm:ss | 14VDC. | |
| Sampling rate : NA | Hz Warm up time (ms) | Validate | |
| Data Acq. duration : NA ddd, | hh:mm:ss | | |
| Tx Log | | | |
| | | | |
| | | | |

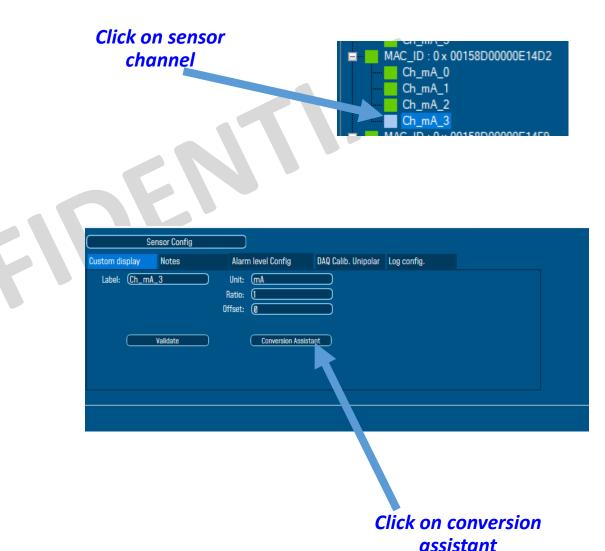
BeanAir Sensor configuration from BeanScape® For Pressure sensor

For Pressure sense 4mA => 0 Bar 20mA => 25 Bar



For Temperaure sensor 4mA => -20 degC 20mA => 120 degC







Check your settings

