



Calitemp

User and installation manual

Description

Digital temperature sensor with outstanding accuracy over a wide temperature range. The sensor is equipped with one outer and one inner G1/4 thread and can be installed very space efficiently, for example directly into a CPU water block or radiator. The rubber ring with the cable connector can be rotated into six positions while gently pulling the black rubber ring away from the metal part.

For sensor operation, an aquaero 5 or aquaero 6 device with firmware version 2100 or higher is required. Compatible firmware versions are included starting with aquasuite version 2018-1.

Direct connection to an aquaero 5/6

Connect the Calitemp sensor to the “aquabus high” connector of the aquaero, using the cable supplied with the sensor. If further aquabus devices are to be connected to the same connector, use compatible splitters (articles code 53124 or 53231, not included in delivery). Never connect multiple Calitemp sensors directly to an aquaero using splitters! To connect multiple Calitemp sensors, use an “aquabus X4” device instead (article code 53258, not included in delivery).

Connection to an aquaero 5/6 using an “aquabus X4”

The “aquabus X4” must be connected directly to the “aquabus high” connector of the aquaero. Exactly one Calitemp sensor may be connected to each connector of the “aquabus X4” (in addition to any other aquabus devices up to the maximum number supported by the aquaero). Consequently, up to four Calitemp sensors can be connected simultaneously using an “aquabus X4”.

Technical details

Temperature range: -30 °C to +120 °C
 Resolution: 0.01 °C
 Supply voltage: 5 V DC
 Supply current: max. 5 mA

Specified accuracy of the sensor chip used:

-40 °C to -20 °C: +/- 1 °C
 -20 °C to -5 °C: +/- 0.5 °C
 -5 °C to 50 °C: +/- 0.2 °C
 50 °C to 100 °C: +/- 0.5 °C
 100 °C to 125 °C: +/- 1 °C

(The actually attainable accuracy depends on environment factors and is considerably lower in most cases. To increase accuracy, insulation material commonly used for pipe insulation can be applied.)

Pin assignment

Pin 1: GND
 Pin 2: SDA
 Pin 3: SCL
 Pin 4: +5V

Scope of delivery

One Calitemp sensor
 One aquabus cable

Replacement part information

Connection cable: 53214
 Gasket: 94505
 Thermal pad: 51207

Care instructions

Use a dry and soft cloth for cleaning. All electronic components and headers must not get in contact with coolant or water!

Waste disposal

This device has to be disposed of as electronic waste. Please check your local regulations for disposal of electronic waste.

