FAQ

Frequently asked questions

Analog sensors connection

Sensors

Analog sensors connection

Question:
How can I connect a generic analog sensor to one of my AiM device analog channels?

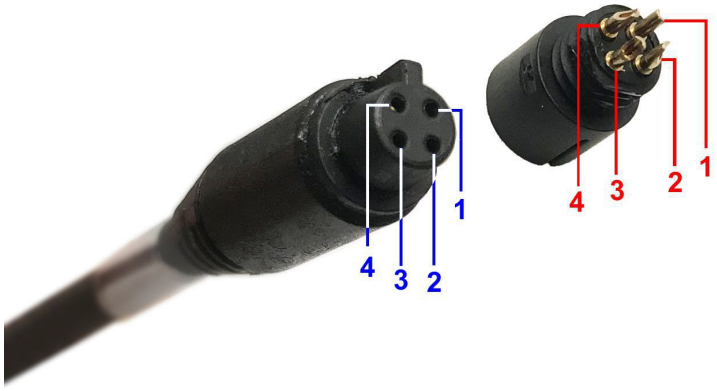
Answer:
To connect third-party sensors to one of the AiM logger analog channels, it is necessary to:

- Look up the sensor datasheet, supplied when purchasing it or available on the web, to know its pinout or the leads functions, and have details about its power supply or the drained current.
- Purchase the AiM connector counterpart (4-pins Binder, available in plastic or metal as shown in the following images). Connectors can be purchased by placing the order directly to AiM distributors and dealers network.
- Refer to the following tab to know the AiM connectors pinout and pins function (following page).
- In the Custom Sensors section of Race Studio 3 (), once the function has been specified, complete the sensor characterization, following the datasheet instructions or exploiting the Live Measures tab of the Connected AiM Device (with enabled “mV Values” view).

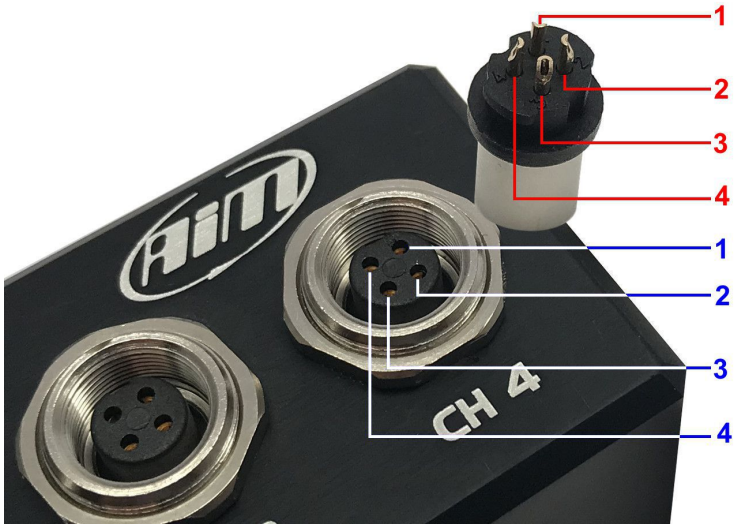
Sensors

Here below, connector pins are shown for both versions (the numbering is shown with the polarization key upwards – welding side view; the AiM connector pins are specified in blue – front side view):

Binder 719 plastic
4 ways female flying conn.
as supplied on AiM harnesses.
Mating male connector sold separately.



Binder 712 metallic
4 ways female panel mount
as supplied on EVO4s and Channel Expansion.
Mating male connector sold separately.



- **PIN1: Analog signal**
- **PIN2: GND**
- **PIN3: Vbattery (12V)**
- **PIN4: Vreference (5V)**