

# AIN Module

**AIN** means “Analog Input”. Analog is meant as a range; in terms of voltage this range is normally from 0 to 5 V, in terms of programming this is normally a 10bit value from 0 to 1023. It's quite clear if you see this in contrast to the Digital Inputs (via [DIN Module](#)), which know just two states: on or off, 1 or 0.

The AIN module is normally used to connect potentiometers to the Midibox, usually these two types:

- circular pots ⇒ Turning knobs
- linear pots ⇒ Faders



**Potentiometers (also “Pots”) should have a typical resistance value of 10 kΩ.**

[Motorfaders](#) have to be connected to a special module called [MF Module](#).

It's also possible to use other 0-5V analog voltage sources. The [ACSensorizer](#) is a user project especially developed for AIN sources (like sensors) that do not deliver 0-5V exactly.

## See also

- [AIN Module](#) <sup>uCApps</sup>
- [ain board parts list](#)
- [ACSensorizer](#)
- [Midibox Extensions](#) page
- [sound.westhost.com/pots.htm](https://sound.westhost.com/pots.htm) interesting background informations about pots

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