

NAM01 is a reasonably priced general-purpose nanovolt amplifier. It is extremely suitable for use with low level signals, for instance from differential temperature sensors, thermocouples, heat flux sensors, thermopiles etc. Using NAM01 signals can be analysed that would otherwise remain invisible. The amplifier is suitable for use with Hukseflux heat flux sensors, in particular with the models of the DT-, NF and CHF series.

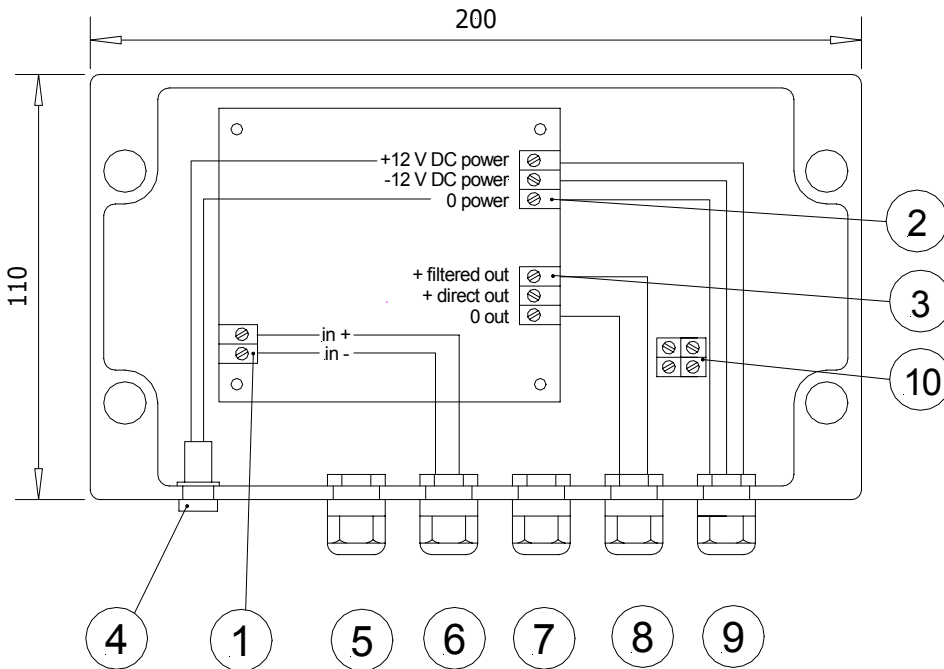


Figure 1 NAM01 schedule: low level signal in (1), power in +12VDC, -12VDC and ground (2), amplified signal out (3), normally a filtered output is connected, LED connected to power supply voltage (4), gland for thermocouple/ temperature sensor signal out (5), connected via connection block (10), gland for signal in (6), gland for optional chain connection (power) (7), gland for amplified signal out (8) gland power supply in (9). Dimensions in mm.

Using NAM01 in combination with thermocouples, one can reach sensitivities of a few hundred microkelvins.

In its standard setting NAM01 is optimised for use with Hukseflux' CHF and DT sensors.

It is possible to change the amplification and response time to other values. In general this will also affect the input range. Please consult Hukseflux about the possibilities.

NAM01 SPECIFICATIONS

Power requirements :	+12 to 15 VDC, -12 to 15 VDC, 0 (ground), +/- 4 mA within 10 nV
Initial offset:	offset: max 5 nV/K
Temperature dependence:	10 nV peak-peak
Noise level:	10.000 x (can be adapted on request)
Amplification:	+/- 7 VDC max, +/- 2mA max
Output range:	+/- 0.7 mV max
Input range:	1 s
Response time:	