

## Appendix A: Specifications

Some specifications of NVM2 are listed below <sup>1</sup>

### NVM2 DC voltage noise <sup>1</sup>

Range	2-minute RMS noise	2-minute peak-peak noise	24-hour peak-peak noise
100uV	0,6nVrms	2,5nVpp	10nVpp
1mV	0,7nVrms	2,5nVpp	TBD
10mV	0,85nVrms	3nVpp	TBD
100mV	8nVrms	40nVpp	TBD
1V	16nVrms	100nVpp	TBD
10V	40nVrms	200nVpp	TBD

### DC voltage noise vs source resistance <sup>2</sup>

Range	2-minute RMS noise
0Ohm	0,6nVrms
100Ohm	TBD
1kOhm	2nVrms
10kOhm	TBD
100kOhm	TBD
1Mohm	TBD

Power supply: 100V-240VAC  $\pm 10\%$ . or 11-14VDC/3A

Line frequency: 45Hz to 66Hz

Power consumption: 10VA (typically 6W from DC power input).

#### Notes:

1: I do not dare to list more specifications than this. Ask me if anything.

2: After a 3-hour warm-up,  $\pm 1$  °C, 6.5 digits (10 PLC) with Digital Filter Medium (50 reading average). 2-minute rms and 24-hour noise typical.

3: Typical noise behavior for Ch 1 or Ch 2, after 2 hour warm-up, 6.5 digits (10 PLC), 2 minute observation period on 1 mV range. For peak-to-peak noise, multiply rms noise by 6.