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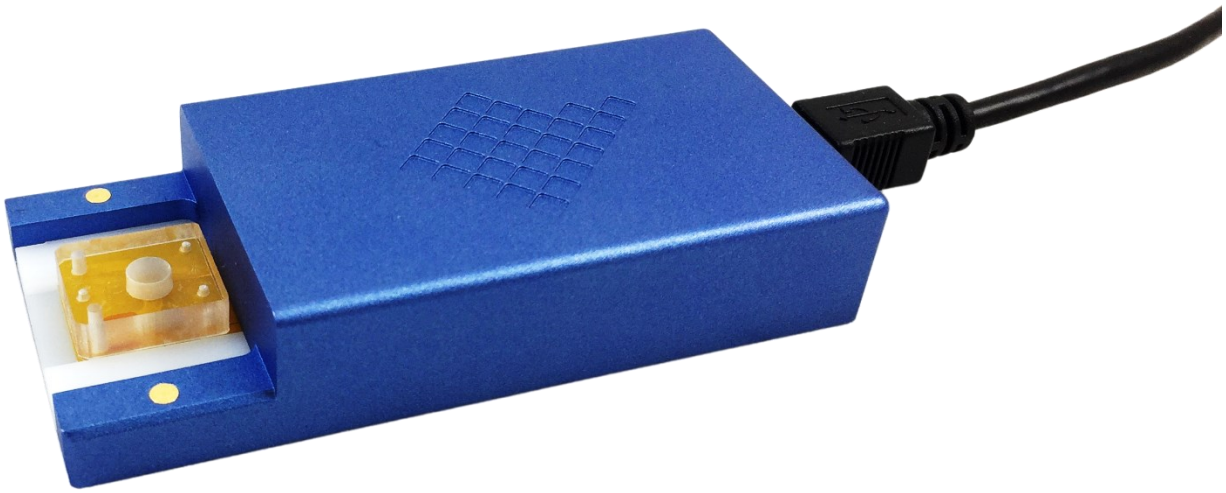
eNPR – Application note

Temperature variation in the BLMchip flowcell



This short document analyzes the temperature variation in the BLMchip flowcell of the eNPR amplifier

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The test was performed by inserting a small temperature probe within the top chamber of the BLMchip flowcell. The two chambers (top and bottom) of the flowcell were then filled with a 0.1M KCl-containing solution. At the beginning of each test, the device was kept off for 1 hour and then switched on by connecting the USB cable to the computer. During the test, the protocol n.2 was applied at 5kHz or at 50kHz sampling rate, as specified in the graph. The test was run either with the lid open or closed. The temperature variation in the four above-described conditions was measured every minute and the results are shown in the graph below. The temperature variation is expressed as a delta variation from the starting condition which was always between 20 and 23°C (room tmperature).