

Innovative Non-Destructive Measurements of Water Activity and the Content of Salts in Low-Salt Hake Minces

Kirsti Greiff^{a,b}, Ana Fuentes^c, Ida G. Aursand^a, Ulf Erikson^a, Rafael Masot^d, Miguel Alcañiz^d, and Jose M. Barat^c

^a SINTEF Fisheries and Aquaculture, Brattørkaia 17C, N-7465 Trondheim, Norway

^b Department of Biotechnology, Norwegian University of Science and Technology, Sem Sælandsvei 6/8, N-7491, Trondheim, Norway

^cDepartamente de Tecnología de Alimentos (DTA), Universitat Politècnica de València, Cno de Vera s/n 46022 València, Spain

^dInstituto de Reconocimiento Molecular y Desarrollo Tecnológico (IDM), Centro Mixto Universitat Politècnica de València, Cno de Vera s/n 46022 València, Spain

Running title header: Sodium reduction, potassium chloride, spectroscopic impedance, sodium measurement, low field NMR

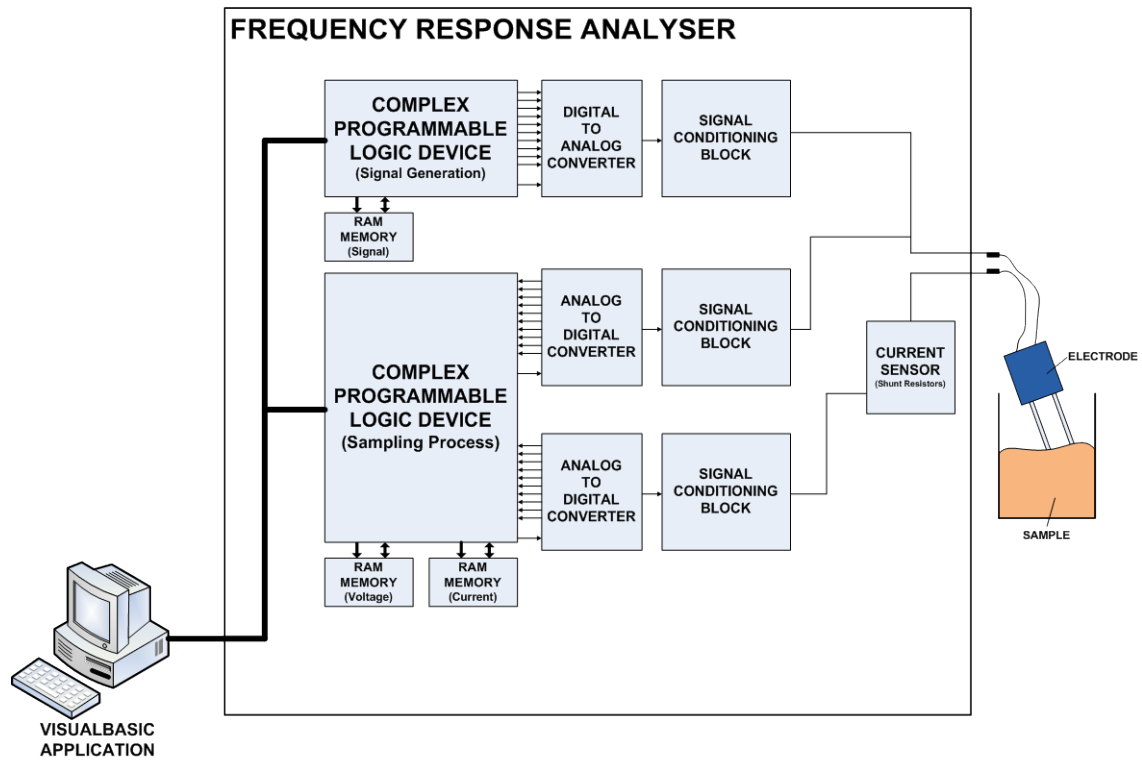
*corresponding author:

Kirsti Greiff, SINTEF Fisheries and Aquaculture, Brattørkaia 17C, 7465 Trondheim, Norway

Tel: +4747903891, Fax: +47 93 27 07 01, E-mail: kirsti.greiff@sintef.no

Supplementary information

Figure 1 System block diagram



The electronic equipment includes a digital processing block based on two Complex programmable logic devices (CPLD)'s and three Random-access memories (RAM), one digital-to-analog converter, two analog-to-digital converters and some analog signal adaption circuits.