

QUANTITATIVE NMR CLINICAL ANALYZERS WITH AUTOMATIC NMR TEMPERATURE SENSITIVITY COMPENSATION THAT ACCOMMODATE LARGE AMBIENT OPERATIONAL TEMPERATURE RANGES

Abstract

NMR analyzers and associated methods, circuits and computer program products that allow NMR operation in fluctuating ambient temperature environments of at least +/- 5 degrees F in a relatively large operating temperature range, typically between about 60-85 degrees F) with the ability to still generate accurate quantitative measurements using an electronically applied temperature sensitivity adjustment based on an a priori model of temperature sensitivity and a detected temperature proximate the NMR signal acquisition (e.g., scan). The clinical NMR analyzers can be remotely accessed to evaluate linearity and temperature compensation adjustments.

FIGURE 1