1/13/2000   Proposition for a calibration sequence in MOPOS

Exemple for a calibration requested at 1000 mS

Time (mS)   1000   1100 ?   1200 ?

calibrator mode

measure *   [   ]   [SUM 1 , DIF 1   ]
offset   [SUM 3 , DIF 3   ▓▓▓   ]
calibrate   [SUM 2 , DIF 2   ▓▓▓   ]

set the calibrator mode to offset   set the calibrator mode to calibrate   set the calibrator mode to measure
set the status bits in control register of Maci: set the status bits in Maci   reset the status bits in control register of Maci
(bits 12 and 13 are reserved for this use)   set bit 12 to 1   then …
(bit 12 is replied in bit 29 of turn counter)
(bit 13 is replied in bit 30 of turn counter)
set bit 13 to 1

read 20 mS minimum of data   read 20 mS min of data   are SUM 3 and SUM 2 in the range (>SUM MIN <SUM MAX
is bit 30 to 1 ?   is bit 29 to 1 ?   yes => compute K
y: this is SUM 3 , DIF 3   y: this is SUM 2 , DIF 2   is K in the range ? (>K MIN <K MAX)
                                                                    yes => good calibration
                                                                    display bad pick-ups, save for later analysis
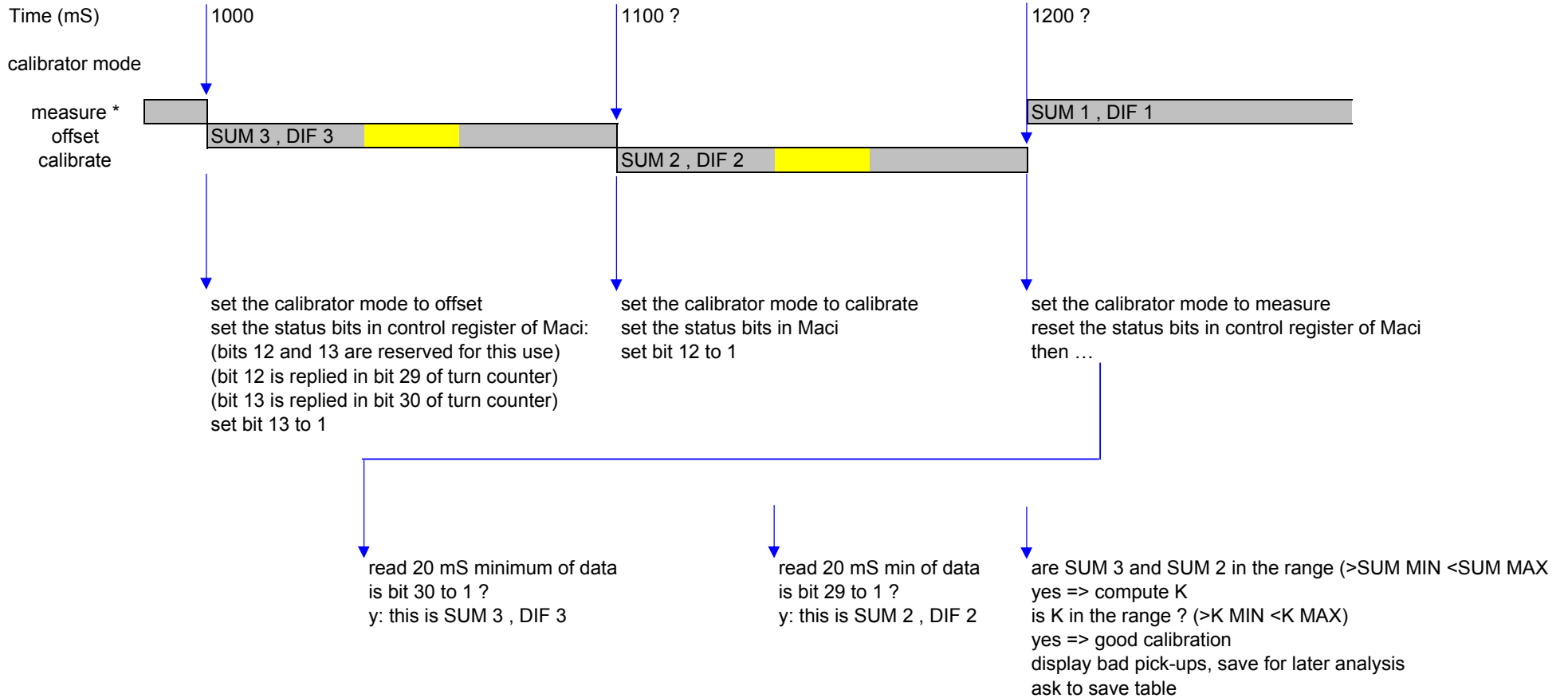   ask to save table

* these acquisition segments remains avalaible for other measurements
during calibration, CalAq Tag is set as a warning

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