

Macro cmd	0x13	0x14	0x16	0x21	0x35	0x50	0x52	0x53	0x54
Macro ID	0x203	0x204	0x206	0x301	0x405	0x600	0x602	0x603	0x604
Notes		Use 0x926	Use 0x604		Use 0x604	Use 0x525			
Purpose	Swp, Vsc	Swp, HF	NN	Swp, Vsc	NN HF	Swp, HF	HF, swp	HF, swp	N, HF, swps
TM rate	NM	BM	BM	NM	BM	NM	NM	NM	BM
Bias mode	NE	NN	NN	EN	NN HF	NN	NN	NN	NN
Fix bias P1	0 V	0 V	0 V	0 nA	0 V	+20 V	+20 V	+20 V	+20 V
Fix bias P2	0 nA	0 V	0 V	0 V	0 V	+20 V	+20 V	+20 V	+20 V
Gain/bias P1	hi	hi	hi	bias	hi	hi	hi	hi	hi
Gain/bias P2	bias	hi	hi	hi	hi	hi	hi	hi	hi
LF continuous data (ADC20)									
Note	Snapshots			Snapshots					
Sampled data	V2	.	11,12	V1	.	.	.	.	11,12
Number of signals	1	0	2	1	0	0	0	0	2
Averaging									
Downsampling	1		1	1		1	1	1	2
fsamp [Hz]	57,80		57,80	57,80		57,80	57,80	57,80	28,90
Bits/sample transmitted	20		20	16					16
Samples/AQP/probe	256		1790	256					893
Cadency (if not 1) [AQPs]	4		4	4					4
Cadency (if not 32s) [s]	128		128	128					128
HF wave snapshots (ADC16)									
Sampled data		11,12	.	.	11,12	11,12	11,12	11-12	11,12
Number of signals	0	2	0	0	2	2	2	1	2
Downsampling	1	1	1	1	1	1	1	1	1
fsamp [Hz]	18750	18750	18750	18750	18750	18750	18750	18750	18750
Samples	256	2048		4096	256	256	256	256	1840
Cadency [AQPs]	8	2	1	1	2	8	8	6	3
Cadency [s]	256	64	32	32	64	256	160	160	96
Coarse sweeps (ADC16)									
Probes	P1	P1, P2	.	P2	.	P1, P2	P1, P2	P1, P2	P1, P2
Number of signals	1	2	0	1	0	2	2	2	2
Shape	\	V		V		\	\	\	\
Directions (1 or 2)	1	2		2		1	1	1	1
Cadency [AQPs]	8	2		2	1	8	5	5	3
Cadency [s]	256	64		64	32	256	160	160	96
Range [V]	[-11,+11]	[-25,+25]		[-11,+11]		[-30,+20]	[-30,+15]	[-30,+15]	[-30,+20]
Step [V]	1	0,5		1		1	1	1	0,25
Number of steps	48	208		48		48	48	48	208
Plateau duration [cycles]	512	512		512		512	512	512	512
Plateau duration [ms]	27,3	27,3		27,3	0,0	27,3	27,3	27,3	27,3
Downsampling	128	64		256	1	128	512	256	256
Samples per plateau	4	8		2	0	4	1	2	2
Samples/sweep/probe	202	1678		104	1	202	52	101	424
Sweep duration [s]	1,38	5,73		1,42	0,00	1,38	1,42	1,38	5,79
Fine sweeps (ADC16)									
Probes	.	.	.	.	.	.	.	.	.
Number of signals	0	0	0	0	0	0	0	0	0
Shape									
Cadency [AQPs]	1	1	1	1	1	1	1	1	1
Cadency [s]	32	32	32	32	32	32	32,0	32,0	32
Offset [V]									
Range [V]									
Step [mV]									
Number of steps									
Plateau duration [cycles]									
Downsampling									
Samples per plateau									
Samples/sweep/probe									
First upload [vmmdd]						050304	050304	050304	
TM LF [bps]	40,0	0,0	2237,5	32,0	0,0	0,0	0,0	0,0	893,0
TM HF [bps]	0,0	1024,0	0,0	0,0	2048,0	32,0	51,2	25,6	613,3
TM CSwp [bps]	12,6	839,0	0,0	26,0	0,0	25,3	10,4	20,2	141,3
TM FSwp [bps]	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
TM total [bps]	52,6	1863,0	2237,5	58,0	2048,0	57,3	61,6	45,8	1647,7

Field colour:
Green: currently preferred non-LDL science macros
Orange: currently preferred LDL science macros
Yellow: maintenance, diagnostics, etc.
White: superseded science macros
Blue: ideas
Pink: test macros only used once for verifying internal functionality after launch, not for science use.

Text colour:
Black: NM
Red: BM