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/* touch and OOR statuses */
#define TS1      0x00
#define TS2      0x01
#define OORS1    0x02
#define OORS2    0x03

/* filtered data */
#define E0FDL    0x04
#define E0FDH    0x05
#define E1FDL    0x06
#define E1FDH    0x07
#define E2FDL    0x08
#define E2FDH    0x09
#define E3FDL    0x0A
#define E3FDH    0x0B
#define E4FDL    0x0C
#define E4FDH    0x0D
#define E5FDL    0x0E
#define E5FDH    0x0F
#define E6FDL    0x10
#define E6FDH    0x11
#define E7FDL    0x12
#define E7FDH    0x13
#define E8FDL    0x14
#define E8FDH    0x15
#define E9FDL    0x16
#define E9FDH    0x17
#define E10FDL   0x18
#define E10FDH   0x19
#define E11FDL   0x1A
#define E11FDH   0x1B
#define E12FDL   0x1C
#define E12FDH   0x1D

/* baseline values */

#define E0BV      0x1E
#define E1BV      0x1F
#define E2BV      0x20
#define E3BV      0x21
#define E4BV      0x22
#define E5BV      0x23
#define E6BV      0x24
#define E7BV      0x25
#define E8BV      0x26
#define E9BV      0x27
#define E10BV     0x28
#define E11BV     0x29
#define E12BV     0x2A

/* general electrode touch
sense baseline filters */

/* rising filter */
#define MHDR      0x2B
#define NHDR      0x2C
#define NCLR      0x2D
#define FDLR      0x2E

/* falling filter */
#define MHDF      0x2F
#define NHDF      0x30
#define NCLF      0x31
#define FDLF      0x32

/* touched filter */
#define NHDT      0x33
#define NCLT      0x34
#define FDLT      0x35

/* proximity electrode touch
sense baseline filters */

/* rising filter */

#define MHDPROXR  0x36
#define NHDPROXR  0x37
#define NCLPROXR  0x38
#define FDLPROXR  0x39

/* falling filter */
#define MHDPROXF  0x3A
#define NHDPROXF  0x3B
#define NCLPROXF  0x3C
#define FDLPROXF  0x3D

/* touched filter */
#define NHDPROXT  0x3E
#define NCLPROXT  0x3F
#define FDLPROXT  0x40

/* electrode touch and
release thresholds */
#define E0TTH     0x41
#define E0RTH     0x42
#define E1TTH     0x43
#define E1RTH     0x44
#define E2TTH     0x45
#define E2RTH     0x46
#define E3TTH     0x47
#define E3RTH     0x48
#define E4TTH     0x49
#define E4RTH     0x4A
#define E5TTH     0x4B
#define E5RTH     0x4C
#define E6TTH     0x4D
#define E6RTH     0x4E
#define E7TTH     0x4F
#define E7RTH     0x50
#define E8TTH     0x51

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#define E8RTH      0x52      #define CDT01      0x6C
#define E9TTH      0x53      #define CDT23      0x6D
#define E9RTH      0x54      #define CDT45      0x6E
#define E10TTH     0x55      #define CDT67      0x6F
#define E10RTH     0x56      #define CDT89      0x70
#define E11TTH     0x57      #define CDT1011    0x71
#define E11RTH     0x58      #define CDT11      0x72
#define E12TTH     0x59
#define E12RTH     0x5A      /* GPIO */

/* debounce settings */
#define DTR        0x5B      #define CTL0       0x73
                                #define CTL1       0x74
                                #define DAT        0x75
                                #define DIR        0x76
                                #define EN         0x77
                                #define SET        0x78
                                #define CLR        0x79
                                #define TOG        0x7A

/* configuration registers
*/
#define AFE1       0x5C      #define EN         0x77
#define AFE2       0x5D      #define SET        0x78
#define ECR        0x5E      #define CLR        0x79
                                #define TOG        0x7A

/* electrode currents */
                                /* auto-config */
#define CDC0       0x5F      #define ACCR0      0x7B
#define CDC1       0x60      #define ACCR1      0x7C
#define CDC2       0x61      #define USL        0x7D
#define CDC3       0x62      #define LSL        0x7E
#define CDC4       0x63      #define TL         0x7F
#define CDC5       0x64
                                /* soft reset */
#define CDC6       0x65      #define SRST       0x80
#define CDC7       0x66
                                /* PWM */
#define CDC8       0x67      #define PWM0       0x81
#define CDC9       0x68      #define PWM1       0x82
#define CDC10      0x69      #define PWM2       0x83
#define CDC11      0x6A      #define PWM3       0x84
#define CDC12      0x6B

/* electrode charge times */

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