DPU121226 Protocol.doc

Medi SMARTS

THR

0	1-2	3-4	5	6	7-11	12	13
01	39	dpu #	30	Exp.	Mantissa	Cs	04

BackGround

0	1-2	3-4	5	6	7-11	12	13
01	39	dpu #	32	Exp.	Mantissa	Cs	04

CLR DOSE or TOTAL

0	1-2	3-4	5	6	7	8-10	11	12	13
01	39	dpu #	*	*	2D	30	31	Cs	04

CAL BackGround

0	1-2	3-4	5	6	7	8-10	11	12	13
01	39	dpu #	*	*	2D	30	32	Cs	04

==*DPU to PC   Threshold ACK &.* Back Ground *ACK.& Clear Dose or Total ACK.&*==
==Cal Back-Ground Ack==

0	1 – 2	3 – 4	5	6-10	11	12-14	15-16	17	18
01	dpu #	39	31	Rx6-Rx10	Rx11 if BacG=33	73,74,61 sta	30	Cs	04

BackGround or Thr Mantissa (7-11)=> *10000+*1000+*100+*10+*1
Exp(6)=> 31H=/10, 32H=/100, 33H=/1000, 35H=*1000,36H=*100,37H=*10

PC to DPU REQUEST for:

0	1-2	3-4	5-10	11	12	13
01	*	dpu #	*	REQ	Cs	04

REQ=30= STATUS
REQ=31= DOSE or TOTAL
REQ=32= RATE
REQ=39= BackGround
REQ=41= RATE & DOSE
REQ=42= FW version
REQ=43= THR.

DPU to PC answerr

STATUS

0	1-2	3-4	5	6	7	8	9	10	11
01	dpu #	30	31	39	69=i	6E=n	73=s	74=t	33= rotem

12	13	14	15	16	17	18
73=s	74=t	61=a	30	30	Cs	04

DOSE or TOTAL & RATE & BackGround & THR & VERTION

0	1-2	3-4	5-6	7-11
01	dpu #	30	32 35	meter reading

12	13-17	18	19	20	21	22	23	24
Exp	Unit	Rq	Det	61=a	ST1	ST2	Cs	04

RATE&DOSE

0	1-2	3-4	5-6	7-11	12	13-17
01	dpu #	30	33, 36	Rate reading	Rate Exp	Rate Unit

18	19	20	21	22	23-27	28	29-33	34	35
Rq	Det	61=a	ST1	ST2	Dose reading	Dose Exp	Dose Unit	Cs	04

Byte 7-11: MANTISA READING INCLUDE DP
Byte 12: EXP READING (20H=0, 4BH=K=3, 4DH=M=6, 47H=G=9, 54H=T=12)

DOSE, TOTAL. RATE, THR= **MANTISA*10E^{EXP}**

BackGround
Byte 7-11= *10000+*1000+*100+*10+*1

VERTION
Byte 7-12=30H, 30H, 32H, 33H, 39H, 20H = 329

If FAIL_FLG **Byte 7-12**= 4EH,61H,20H,20H,20H,20H = Na

Byte 13-17 Real UNIT
    mR= 20H,20H,20H,6DH,52H
    uSv=20H,20H,75H,53H,76H
    mR/h= 20H,6DH,52H,2FH,68H
    uSv/h=75H,53H,76H,2FH,68H
    CPS=20H,20H,43H,50H,53H
    COUNT=43H,4FH,55H,4EH,54H

Byte18= Rq code
    DOSE or TOTAL =31H
    RATE = 32H
    BackGround =39H
    RATE+DOSE=41H
    VER=42H
    THR=43H

**Detector type
Byte19**
30-No detector
31-pm10
32-pm11
33- ic10
34-gm10
35-gm40
36-gm41
37-gm42
38- BF3
39- 42-30H
41- UR
42- Berthold

Byte21-ST1 IF OVF=31H ELSE 30H
Byte22-ST2   IF FAIL_FLG=34H ELSE 30H

Byte23- CS=0FFFFH-(BYTE1+2…..22)