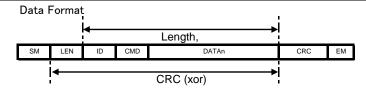
NL2NP450K-01 RF-Generator Command date:2021.10.12 / NRF Maeno Yoshimura



Name	Size	Function				
SM	1	Start Marker(0x05)				
LEN	1	Length				
ID	1	ID				
CMD	1	Comamnd				
DATAn	1	Data Field				
CRC	1	CRC(xor calc.)				
EM	1	End Marker(0x0A)				

RS-232c	Set Value
Baudrate	57,600bps
Data Width	8bits
Parity	even
Flow Cont	none
Stop Bit	1 bit

XDATAn∶little endian

Ex	CTRL ⇒ RF	U	RF	ON제어	로 응답 수	:신								
RF-ON 제어 FUNCTION	l Cont	SM LEN	I ID C	MD DATA	DATA (RC END	_	ᄾ	ו דיווט	RF유닛의	o = B	려하다	-L	
set rf-gen. output	mode ⇒	05 04	80 (00 02	00	86 0A	_	/ 경시	에시	KFポスコ	으도 평	당합니	∟ ŗ.	
		R F	유닛으로부E	터 장치로 응	응답합									
			니	다.	/ ¬	UNCTIO	SM	LEN	ID	CMD [ATA	CRC	END	
			(100ms	ec이내)	7	Normal	05	03	80	[cmd]	01	[crc]	0A	
		(1	반드시 전성	송 명령어	에 응답을	받아 다음	명령을	· 발행a	해 주	세요.)				

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1.set rf-gen. output mode

cont	CTRL 장치 측 ⇒ RFU 전원 유닛					
[cmd]						
0x00	15 4 3 2 1 0					
[id]	reserved rsv rsv					
0x80						
	[0] reserved					
	[1] rf output control 0:RF-OFF, 1:RF-ON					
	[2] rf mode control 0:CW, 1:PULSE					
	[3] alarm reset 0:no-operation, 1:reset					
	[15:4] reserved					
	[NOTE] alarm reset(=bit3) is auto-cleared.					
	cont command					
	SM LEN ID CMD DATAO DATA1 CRC END					
	05 04 80 [cmd] [DATA] [crc] 0A					
ANS	CTRL 장치 측 ← RFU 전원 유닛					
	Normal 05 03 80 [cmd] 01 [crc] 0A					
	abnormal 05 03 80 [cmd] [ER] [crc] 0A					

ER(Error Code)
0xF0:Communicaton Error
0xF1:CRC Error
0xF2:Data Error
0xF3:E2PROM Error

알람 리셋의 경우 alarm reset과 RF-ON을 동시에 1을 입력하지 마십시오. 3.respond rf-gen. status CTRL 장치 측 ⇒ RFU 전원 유닛 ASK Command [cmd] 0x40 SM LEN ID CMD CRC END [id] 05 02 80 [cmd] [crc] 0A 0x80 ANS CTRL 장치 측 ← RFU 전원 유닛 [cmd] [DATA] 0xC0 15 14 12 11 10 9 8 7 6 5 4 3 2 1 0 hd reserved amp rsv il tp rsv al rsv ar rsv ro rsv [id] 0x80 [0] reserved not assignment. read data is '0'. [1] rf output control 0:RF-OFF, 1:RF-ON [2] rf mode control 0:CW, 1:PULSE [3] reserved not assignment. read data is '0'. [5:4] reserved not assignment. read data is '0'. [6] alarm 0:normal, 1:abnormal [7] reserved not assignment. read data is '0'. [8] temp 0:normal, 1:abnormal [9] interlock 0:normal, 1:abnormal [10] reserved not assignment. read data is '0'. [11] AMP 0:normal, 1:abnormal [14:12] reserved not assignment. read data is '0'. HD CON [15] 0:disable, 1:enable [NOTE] ANS Command
 SM
 LEN
 ID
 CMD
 DATA0
 DATA1
 CRC
 END

 05
 04
 80
 [cmd]
 [DATA]
 [crc]
 0A
 SM LEN ID CMD DATA0 DATA1 CRC END

NL2NP450K-01 RF-Generator Command date:2021.10.12 / NRF Maeno Yoshimura

4.set pf-pwr CTRL 장치 측 ⇒ RFU 전원 유닛 cont [cmd] 0x01 15 0 [id] 0x80 [15:0] pf-power 0~2000(0x0000~0x07D0) [NOTE] pf-power unit is "W". cont command SM LEN ID CMD DATA0 DATA1 CRC END 80 [cmd] [DATA] [crc] 0A 05 04 **ANS** CTRL 장치 측 ← RFU 전원 유닝 Normal 05 03 80 [cmd] 01 [crc] 0A

abnorma

ER(Error Code) 0xF0:Communicaton Error 0xF1:CRC Error 0xF2:Data Error 0xF3:E2PROM Error

05 | 03 | 80 [cmd] [ER] [crc] | 0A

6.respond set pf-pwr CTRL 장치 측 ⇒ RFU 전원 유닛 **ASK** ASK Command [cmd] ID CMD CRC END 0x41 SM LEN [id] 05 | 02 | 80 [cmd] [crc] | 0A 0x80 CTRL 장치 측 ← RFU 전원 유닛 ANS [cmd] [DATA] 0xC1 15 [id] pfw 0x80 [15:0] 0~2000(0x0000~0x07D0) [NOTE] pf-power unit is "W". ANS Command SM LEN ID CMD DATA0 DATA1 CRC END 05 04 80 [cmd] [DATA] [crc] 0A

8.respond current pf-pwr CTRL 장치 측 ⇒ RFU 전원 유닛 [cmd] ASK Command 0x42

SM LEN ID CMD CRC END 05 02 80 [cmd] [crc] 0A [id] 0x80 **ANS** CTRL 장치 측 ← RFU 전원 유닛 [cmd] [DATA] 0xC2 15 0 [id] Cpfw 0x80 [15:0] current pf-power 0~2000(0x0000~0x07D0) [NOTE] current pf-power unit is "W". ANS Command SM LEN ID CMD DATA0 DATA1 CRC END 05 04 80 [cmd] [DATA] [crc] 0A

NL2NP450K-01 RF-Generator Command date:2021.10.12 / NRF Maeno Yoshimura

10.respond current pr-pwr CTRL 장치 측 ⇒ RFU 전원 유닛 [cmd] Command
 SM
 LEN
 ID
 CMD
 CRC
 END

 05
 02
 80
 [cmd]
 [crc]
 0A
 0x43 [id] 0x80 ANS CTRL 장치 측 ← RFU 전원 유닛 [cmd] [DATA] 0xC3 15 0 [id] Cprw 0x80 current pr-power(monitor) [15:0] 0~2000(0x0000~0x07D0) [NOTE] current pr-power unit is "W". ANS Command SM LEN ID CMD DATAO DATAO CRC END 05 | 04 | 80 [cmd] [DATA] [crc] | 0A