Netvox LoRaWAN Application Command V1.7

VersionHistory

Description Description Note	Date	Version	Description	Note
Add ConfigureCmd,PQOSCmd 2017-06-07 0.2 Add R311A \times RB11E \times R311G Cmd 2017-06-12 0.3 Add RA07 cmd 2017-07-05 0.4 Add ADR Config cmd \times LowBatteryIndicator 2017-07-06 0.5 Add IRDectionTimeSupport 2017-08-02 0.6 Add RA07 Reportcmd 2017-08-16 0.7 Add R311W Reportcmd 2017-08-17 0.8 Add ChangeActiveModeAndInfoCmd 2017-08-29 0.9 Add RB11E,R801A Support 2017-09-08 1.0 Add RA07 temp/humid/ WindSpeed/WindDirection Add Ra07 temp/humid/ WindSpeed/WindDirection Add Ra07 temp/humid/ 2017-09-14 1.1 Add CayenneTxPeriodCmdSupport 2017-10-30 1.3 Add R726 RA02A Devicetype Support 2017-11-01 1.4 Add R718A Devicetype Support 2017-11-29 1.5 Add STE Electrical Conductivity Suport in Reporttype=0x0A Add RA07W Devicetype Support 2017-12-28 1.5.1 Add ReadLoRaWANStack Version Support Add R727 DevicetypeSupport 2018-01-13 1.5.2 Add R809A DevicetypeSupport 2018-01-24 1.5.3 Add R802I RA02C DevicetypeSupport 2018-01-24 1.5.3 Add R802I RA02C DevicetypeSupport 2018-02-02 1.6 Add R718W DevicetypeS			*	Note
2017-06-07 0.2 Add R311A、RB11E、R311G Cmd		0.1		
2017-06-12 0.3				
2017-07-05 0.4 Add ADR Config cmd, LowBatteryIndicator 2017-07-06 0.5 Add IRDectionTimeSupport 2017-08-02 0.6 Add RA07 Reportcmd 2017-08-16 0.7 Add R311W Reportcmd 2017-08-17 0.8 Add ChangeActiveModeAndInfoCmd 2017-08-29 0.9 Add RB11E,R801A Support 2017-09-08 1.0 Add RA07 temp/humid/ WindSpeed/WindDirection /Atomsphere reportcmd 2017-09-14 1.1 Add CayenneTxPeriodCmdSupport 2017-09-19 1.2 Add resumenetworkinfocmd 2017-10-30 1.3 Add R726 RA02A Devicetype Support 2017-11-01 1.4 Add R718A Devicetype Support 2017-11-29 1.5 Add STE Electrical Conductivity Suport in Reporttype=0x0A Add RA07W Devicetype Support 2017-12-28 1.5.1 Add ReadLoRaWANStack Version Support Add R727 DevicetypeSupport 2018-01-13 1.5.2 Add R809A DevicetypeSupport 2018-01-24 1.5.3 Add R802I RA02C DevicetypeSupport 2018-02-02 1.6 Add R718W DevicetypeSupport	2017-06-07	0.2	Add R311A、RB11E、R311G Cmd	
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2018-01-24			Add R727 DevicetypeSupport	
2018-02-02 1.6 Add R718W DevicetypeSupport	2018-01-13	1.5.2	Add R809A DevicetypeSupport	
77 17	2018-01-24	1.5.3	Add RB02I RA02C DevicetypeSupport	
2018-03-08 1.7 Add R718 MultiDevice Support	2018-02-02	1.6	Add R718W DevicetypeSupport	
	2018-03-08	1.7	Add R718 MultiDevice Support	

1、 ReportDataCmd(UpDirection)

FPort: 0x06

Bytes	1	1	1	Var(Fix=8 Bytes)
	Version	DeviceType	ReportType	NetvoxPayLoadData

Version– 1 bytes –0x01——the Version of NetvoxLoRaWAN Application Command Version **DeviceType**– 1 byte – Device Type of Device

0x01——R711 0x02——R311A

```
0x03-
               -RB11E
        0x04-
                R311G
        0x05-
                RA07
        0x06-
               -R311W
        0x07-
               -RB11E1
        0x08-
                R801A
        0x09-
                R726
        0x0A-
                RA02A
        0x0B-
                -R718A
        0x0C-
                -RA07W
        0x0D---
               -R727
        0x0E-
                -R809A
        0x0F-
                -R211
        0x10-
               -RB02I
        0x11-
               RA02C
        0x12-
                R718WB
        0x13-
                R718AB
        0x14-
               -R718B
        0x15-
                R718CJ
                                 R718CK 0x3
                        0x16-
        0x19-
               -R718CE
        0x1A-
                -R718DA
                                  R718DB
                         0x1B-
        0x1C-
                R718E
        0x1D-
                -R718F
        0x1E-
                -R718G
        0x1F-
                R718H
        0x20-
                -R718I
        0x21-
               -R718J
        0x22-
                R718KA
                                 R718KB
                R718LA
        0x24
                         0x25
                                 R718LB
        0x26
                R718MA 0x27-
                                 -R718MB 0x28-
                                                  -R718MC
        0x29
                R718N
        0x30
                R718S
                R718T
                R718WA
        0x33
                -R718WD
        0x34-
               -R718X
        0xFF——ALL Device
       Other ——Reserved
ReportType - 1 byte -the Presention of the NetvoxPayLoadData, according the
```

ReportType – 1 byte –the Presention of the NetvoxPayLoadData, according the devicetype

NetvoxPayLoadData- var bytes (Max=8bytes)-

De	Device	Repo		Netvo	oxPayLoadData		
vic	Туре	rtTyp			•		
е	,,	e					
AL L	ALL(ac cordin g device type not	0x00	SoftwareVe rsion(1Byte) Eg.0x0A-V1.0	HardwareVersion(1 Byte)	DateCode(4By tes,eg 0x20170503)	Reserved(2Bytes,fixed 0x00)	
	FF)						
R7 11 / R7 18 A / R7 18 AB	0x01/0 x0B/0x 13	0x01	Battery(1By te, unit:0.1V)	Temperature(Signe d2Bytes,unit:0.01 ° C)	Humidity(2By tes,unit:0.01 %)	Reserved (3 Bytes, fixed 0x00)	
R7							
18 CJ/ CK /C R/ CE	0x15/1 6/17/18 /19	0x01	Battery(1By te, unit:0.1V)	Temperature1(Sign ed2Bytes,unit:0.1 ° C)	Temperature2 (Signed2Bytes ,unit:0.1° C)	Reserved(3Bytes,fixed 0x00)	
R7 18 B	0x14	0x01	Battery(1By te, unit:0.1V)	Temperature(Signe d2Bytes,unit:0.01 ° C)	Reserve	d(5Bytes,fixed 0x00)	
R7 18 DA / R7 18 DB / R7 18J / R7 18 LB	0x1A/0 x1B/0x 21/0x2 5	0x01	Battery(1By te, unit:0.1V)	Status(1Byte 0:off 1:on)	Reserved(6Bytes,fixed 0x00)		

R3 11 A/ R7 18 F	0x02/0 x1D	0x01	Battery(1By te, unit:0.1V)	ContactSwitchOnO ff(1Byte 0:off 1:on)		d(6Bytes,fixe	ed 0x0	0)
R7 18 G	0x1E	0x01	Battery(1By te, unit:0.1V)	illuminance (4Bytes,unit:1Lux)	Reserved(3Bytes,fixed 0x00)			0)
R7 18 E	0x1C	0x01	Battery(1By te, unit:0.1V)	DataX(Signed2Byte s)	DataY(Signed 2Bytes)	DataZ(Sig ned2Byte s)	te	erved(1By es,fixed 0x00)
R7 18I	0x20	0x01	Battery(1By te, unit:0.1V)	ADCRawValue(2Byt es,unit:1mv)	Reserve	d (5 Bytes, fixe	ed 0x0	0)
R7 18 KA	0x22	0x01	Battery(1By te, unit:0.1V)	Current(1Bytes,uni t:1mA)	Reserve	d (6 Bytes, fixe	ed 0x0	0)
R7 18 KB	0x23	0x01	Battery(1By te, unit:0.1V)	Resistive(4Bytes,un it:10hms)	Reserve	d (3 Bytes, fixe	ed 0x0	0)
RB 11 E/ RB 11 E1	0x03/0 x07	0x01	Battery(1By te, unit:0.1V)	Temperature(2Byte s,unit:0.01°C)	illuminance (2Bytes,unit:1 Lux)	Occupy(1 Byte 0:Un Occupy 1: Occupy)	te	erved(2By es,fixed 0x00)
R3 11 G	0x04	0x01	Battery(1By te, unit:0.1V)	illuminance (2Bytes,unit:1Lux)	Reserve	d(5Bytes,fixe	ed 0x0	0)
RA	1	0x01	Battery(1By te, unit:0.1V)	PM1.0(2Byte ,CF=1 ,1ug/m3)	PM2.5(2Byte CF=1,ug/m3)	l CF=1.ug	-	Reserve d(1Byte s,fixed 0x00)
07/ R7 26/ R7	0x05/0 x09/0x 0D	0x02	Battery(1By te, unit:0.1V)	PM1.0(2Byte 1ug/m3)	PM2.5(2Byte PM10(2Byte 1ug/m3) 1ug/m3)		Reserve d(1Byte s,fixed 0x00)	
27		0x03	Battery(1By te, unit:0.1V)	0.3um PM(2Byte ,1pcs)	0.5um 1.0um PM(2Byte ,1pcs) pcs)		te ,1	Reserve d(1Byte s,fixed 0x00)

		0x04	Battery(1By te, unit:0.1V)	2.5um PM(2Byte ,1pcs)	5.0um PM(2Byte ,1pcs)	10um PM(2Byte ,1 pcs)	Reserve d(1Byte s,fixed 0x00)
		0x05	Battery(1By te, unit:0.1V)	O3(2Byte ,0.1ppm)	CO(2Byte ,0.1pp m)	NO(2Byte ,0 .1ppm)	Reserve d(1Byte s,fixed 0x00)
		0x06	Battery(1By te, unit:0.1V)	NO2(2Byte ,0.1pp m)	SO2(2Byte ,0.1pp m)	H2S(2Byte , 0.1ppm)	Reserve d(1Byte s,fixed 0x00)
		0x07	Battery(1By te, unit:0.1V)	CO2(2Byte ,0.1pp m)	NH3(2Byte ,0.1p pm)	Noise(2Byte ,0.1db)	Reserve d(1Byte s,fixed 0x00)
		0x08	Battery(1By te, unit:0.1V)	PH(2Byte ,0.01pH)	Temperaturewith PH(2Bytes,unit:0. 01° C)	ORP(Signed 2Byte ,1mv)	Reserve d(1Byte s,fixed 0x00)
		0x09	Battery(1By te, unit:0.1V)	NTU(2Byte ,0.1ntu)	Temperaturewith NTU(2Bytes,unit: 0.01° C)	EC5SoildHu midtiy(2Byt es,unit:0.01 %)	Reserve d(1Byte s,fixed 0x00)
		0x0A	Battery(1By te, unit:0.1V)	5TESoildHumidtiy(2Bytes,unit:0.01%)	5TESoildTemp(2B ytes,unit:0.01° C)	WaterLevel(2Bytes,unit: 1cm)	5TEEC(1Bytes, unit:0.1 db/m)
		0x0B	Battery(1By te, unit:0.1V)	TemperaturewithL DO(2Bytes,unit:0.0 1°C)	LDO'DO Value(2Bytes,uni t:0.01ppm)	LDO'Sat Value(2Byte s,unit:0.1%)	Reserve d(1Byte s,fixed 0x00)
		0x0C	Battery(1By te, unit:0.1V)	Temperature(Signe d2Bytes,unit:0.01 ° C)	Humidity(2Bytes, unit:0.01%)	WindSpeed(2Bytes,unit: 0.01m/s)	Reserve d(1Byte s,fixed 0x00)
		0x0D	Battery(1By te, unit:0.1V)	WindDirection(2By tes)	Atomsphere(4Byte	es,unit:0.01m	Reserve d(1Byte s,fixed 0x00)
R3 11 W	0x06	0x01	Battery(1By te, unit:0.1V)	Water1Leak(1Byte 0:noleak 1:leak)	Water2Leak(1Byt e 0:noleak 1:leak)	Reserved(5By 0x00	

R8 01	0x08	0x01	Battery(1By	Temperature1(Sign ed2Bytes,unit:0.01	Temperature2(S	Reserved(3Bytes fixed	
A	UXU8	UXUI	te, unit:0.1V)	° С)	0.01° C)	0x00)	
RA 02 A	0x0A	0x01	Battery(1By te, unit:0.1V)	HighTempAlarm(FireAlarm(1Byte 1Byte 0:noalarm 1:alarm) 1:alarm)		Reserved(5Bytes,fixed 0x00)	
RA 07 W	0x0C	0x01	Battery(1By te, unit:0.1V)	WaterLeakLocation (2Bytes ,10cm)(Nor mal_0000,SenorNo tConnected_FFFF,O therValue_LeakLoc ation)	Reserved	d(5Bytes,fixed 0x00)	
R8 09 A	0x0E	0x01	OnOff(1Byt e, OFF_0x00, ON_0x01)	Energy(4Byte, unit:1	wh)	Reserved (3 Bytes, fixed 0x00)	
A		0x02	Vol(2Bytes, Unit:1V)	Current(2Bytes,Uni t:1ma)	Power(2Byt es,Unit:1W)	Reserved (2 Bytes, fixed 0x00)	
RB 02I /R 71 8T	0x10/0 x31	0x01	Battery(1By te, unit:0.1V)	Alarm(1Byte 0:noalarm 1:alarm)	Reserved	d(6Bytes,fixed 0x00)	
RA 02 C	0x11	0x01	Battery(1By te, unit:0.1V)	COAlarm(1Byte 0:noalarm 1:alarm)	HighTempAlarm yte 0:noalarm 1:ala	Reserved(5Bytes,fix ed 0x00)	
R7 18 W B/ R7 18 W	0x12/0 x32	0x01	Battery(1By te, unit:0.1V)	WaterLeak (1Byte 0:noLeak1:Leak)	Reserved(6Bytes,fixed 0x00)		
R7 18 W D	0x33	0x01	Battery(1By te, unit:0.1V)	TankRawData(2Byt es ,Unit: 1mv)	TankLevl(1B yte,Unit:1%)	Reserved(5Bytes,fixed 0x00)	

Battery(1Byte, unit:0.1V):Bit7 represent lowbattery Bit6-0 represent batteryvoltage When Battery is 0x00,it represet is powered by DC/AC powersource For RA07/R726/R727, when report data is all FF, it represent the sensor is disconnected

PayLoadDecodeExample:

010B012409EA1A90000000

01-protocalversion

0B—ReportType,represent R718A

01---reporttype

24-----battery,represent 3.6v

09EA---temperature,represent 25.38°C

1A90---humidity,represent 68.00%

000000---reserveddata

2 ConfigureCmd(Bi-Direction)

FPort: 0x07

Bytes	1	1	Var(Fix =9 Bytes)
	CmdID	DeviceType	NetvoxPayLoadData

```
CmdID- 1 bytes -
```

DeviceType– 1 byte – Device Type of Device

0x01——R711

0x02-R311A

0x03——RB11E

0x04---R311G

0x05——RA07

0x06-RA311W

0x07-RB11E1

0x09-R726

0x0A---RA02A

0x0B---R718A

0x0C RA07W

0x0D R727

0x0E -- R809A

0x0F——R211

0x10-RB02I

0x11---RA02C

0x12-R718WB

0x13---R718AB

0x14---R718B

0x15—R718CJ 0x16—R718CK 0x17—R718CT 0x18—R718CR

0x19—R718CE

0x1A----R718DA 0x1B-----R718DB

0x1C-R718E

0x1D--R718F

0x1E--R718G 0x1F----R718H 0x20--R718I 0x21--R718J 0x22--R718KA 0x23——R718KB -R718LB 0x24--R718LA 0x25-0x26--R718MA 0x27----R718MB 0x28----R718MC 0x29--R718N 0x30--R718S)— 0x31--R718T 0x32--R718WA 0x33--R718WD 0x34--R718X 0xFF--ALL Device Other ——Reserved NetvoxPayLoadData- var bytes (Max=9bytes)-

Description	Devic e	CmdI D	Devic eTyp e	NetvoxPayLoadData							
Off		0x90			R	eserv	ed (9Bytes	,Fixe	d 0x00)		
On		0x91			Reserved (9Bytes,Fixed 0x00)						
Toggle		0x92			R	eserv	ed (9Bytes	,Fixe	d 0x00)		
ClearEnergy		0x93	1	Reserved (9Bytes,Fixed 0x00)							
ConfigRepo		0x01		MinTime(2	MaxTin	ne(2	Current	Cha	PowerCha	n	Reserved
rtReq				ytes Unit:	l bvte	S	nge(2by	/te	ge(2byte	e	(1Byte,Fixed
	R809		0x0E	ytes onit.	Unit:	s)	Unit:1m	ıA)	Unit:1W)		0x00)
ConfigRepo	A	0x81	OXOL	Status(0x0	Status(0x00						
rtRsp				_success) Reserved (8Bytes,Fixed 0x00)							
ReadConfig		0x02			R	eserv	ed (9Bytes	,Fixe	d 0x00)		
ReportReq											
ReadConfig		0x82		MinTime(2	MaxTin	ne(2	Current	Cha	PowerCha	n	Reserved
ReportRsp				`	l byte	S	nge(2by	/te	ge(2byt	e	(1Byte,Fixed
				ytes Unit:	Unit:	s)	Unit:1m	ıA)	Unit:1W)		0x00)
ConfigRepo	5744	0x01		MinTime	MaxTime(Batt	teryChan	Ten	nperature	Нι	umidityChang
rtReq	R711			(2bytes	2bytes	ge	e(1byte	Cha	nge(2byte		e(2byte
	/R71			Unit:s) Unit:0.1v) Unit:0.01°C) Unit:0.01%)					Jnit:0.01%)		
ConfigRepo rtRsp	8A/R 718A B	0x81	0x01	Status(0 x00_suc Reserved (8Bytes,Fixed 0x00) cess)							
				,							

ReadConfig ReportReq		0x02			Re	eserved (9Bytes,	Fixed 0x00)	
ReadConfig		0x82		MinTime	MaxTime(BatteryChan	TemperatureC	HumidityChang
ReportRsp				(2bytes	2bytes	ge(1byte	hange(2byte	e(2byte
				Unit:s)	, Unit:s)	Unit:0.1v)	Unit:0.01℃)	Unit:0.01%)
	l		l	,	,		,	
ConfigRepo		0x01		MinTime	MaxTime(BatteryChan	Temperature1	Temperature2C
rtReq				(2bytes	2bytes	ge(1byte	Change(2byte	hange(2byte
				Unit:s)	Unit:s)	Unit:0.1v)	Unit:0.1℃)	Unit:0.1℃)
ConfigRepo		0x81		Status(0		Reserved (8	Bytes, Fixed 0x00)
rtRsp			0x15/	x00_suc				
			16/17/	cess)			\cdot	
ReadConfig		0x02	18/19		Re	eserved (9Bytes,	Fixed 0x00)	
ReportReq								
ReadConfig		0x82		MinTime	MaxTime(BatteryChan	TemperatureC	Temperature2C
ReportRsp				(2bytes	2bytes	ge(1byte	hange(2byte	hange(2byte
	R718			Unit:s)	Unit:s)	Unit:0.1v)	Unit:0.1℃)	Unit:0.1℃)
SetThermoc	CJ/CK	0x03	0x15	Thermoco	upleType(1B)	yte,0x00_Jtyp	Reserved (8By	tes,Fixed 0x00)
oupleTypeR	/CR/		or		•			
eq	CE		0x16	0x01_Ktyp		o,0x03_Rtype,		
			or		0x04_Etype			
SetThermoc		0x83	0x17	Status(0		Reserved (8	Bytes,Fixed 0x00)
oupleTypeR			or	x00_suc				
sp			0x18	cess)				
GetThermo		0x04	Or		Re	eserved (9Bytes,	Fixed 0x00)	
coupleType			0x19					
Req						I		
GetThermo		0x84		Thermoco	oupleType(1By	yte,0x00_Jtyp	Reserved (8By	tes,Fixed 0x00)
coupleType					е			
Rsp	>	1		0x01_Ktyp	e,0x02_Ttyep	o,0x03_Rtype,		
					0x04_Etype	e)		
			ı	Τ		<u> </u>	1	
ConfigRepo	7	0x01		MinTime	MaxTime(BatteryChang	Temperature1	
rtReq				(2bytes	2bytes	e(1byte	Change(2byte	
				Unit:s)	Unit:s)	Unit:0.1v)	Unit:0.1℃)	0x00)
ConfigRepo		0x81		Status(0		Reserved (8	Bytes,Fixed 0x00)
rtRsp	R718			x00_suc				
	R/10		0x14	cess)				
	٥	0x02			Re	eserved (9Bytes,	Fixed 0x00)	
ReadConfig		1	Ī					
ReadConfig ReportReq								
_		0x82		MinTime	MaxTime(BatteryChang	TemperatureC	Reserved
ReportReq		0x82		MinTime (2bytes	MaxTime(2bytes	BatteryChang e(1byte	TemperatureC hange(2byte	Reserved (2Bytes,Fixed

	0.01		A Alia Tilana	N. 0 - 1 /	Datham Chann	Commentation	D
	UXUI			•		_	Reserved
			-	•	•		(3Bytes,Fixed
			Unit:s)	Unit:s)	Unit:0.1v)	Unit:1mA)	0x00)
	0x81		Status(0		Reserved (8B	sytes, Fixed 0x00)	
D718			x00_suc				
		0x22	cess)				
KA	0x02			Re	eserved (9Bytes,F	ixed 0x00)	
	0x82		MinTime	MaxTime(BatteryChang	CurrentChang	Reserved
			(2bytes	2bytes	e(1byte	e (1byte Unit:	(3Bytes,Fixed
			Unit:s)	Unit:s)	Unit:0.1v)	1mA)	0x00)
						. (2)	•
	0x01		MinTime	MaxTime(BatteryChang	ADCRawValue	Reserved
			(2bytes	2bytes	e(1byte		(2Bytes,Fixed
			Unit:s)	-			0x00)
	0x81		Status(0	-	Reserved (8B		·
			•				
R718			_				
1	0x02	0x20	,	Re	eserved (9Bytes,F	Fixed 0x00)	
				X		,	
	0x82		MinTime	MaxTime(BatteryChang	ADCRawValue	Reserved
			(2bytes			Change	(2Bytes,Fixed
					Unit:0.1v)	(2byte Unit:	0x00)
						1mV)	
	0x01	1	MinTime	MaxTime(BatteryChang	TankLevelCha	Reserved
			(2bytes	2bytes	e(1byte	nge(1Byte,Uni	(3Bytes,Fixed
			Unit:s)	Unit:s)	Unit:0.1v)	t:1%)	0x00)
	0x81		Status(0		Reserved (8B	Sytes, Fixed 0x00)	
	V		x00_suc				
			cess)				
	0x02			Re	eserved (9Bytes,F	ixed 0x00)	
D740	0x82		MinTime	MaxTime(BatteryChang	TankLevelCha	Reserved
		0x33	(2bytes	2bytes	e(1byte	nge(1Byte,Uni	(3Bytes,Fixed
VV U			Unit:s)	Unit:s)	Unit:0.1v)	t:1%)	0x00)
	0x03		MinSens	MaxSenso	Reserv	ved (7Bytes,Fixed	0x00)
			orVoltag	rVoltage			
ļ							
			e(1Byte,	(1Byte,Uni			
			e(1Byte, Unit:100	(1Byte,Uni t: 100mv)			
				-			
	0x83		Unit:100	-	Reserved (8B	sytes,Fixed 0x00)	
	0x83		Unit:100 mv)	-	Reserved (8B	sytes,Fixed 0x00)	
	R718 KA R718 I	KA	R718 Ox81 Ox22 Ox82 Ox22 Ox82 Ox20 Ox81 Ox01 Ox82 Ox20 Ox82 Ox20 Ox82 Ox33 Ox81 Ox01 Ox81 Ox02 Ox82 Ox33 Ox33 Ox33	R718 Ox81	R718	R718	R718

GetTankLev		0x04			Re	eserved (9Bytes,F	ixed 0x00)
elRangeReq		0x84		MinCons	MayConso	Docore	and (7D) the Fixed (2,00)
GetTankLev		UX84		MinSens	MaxSenso	Reserv	ved (7Bytes,Fixed 0x00)
elRangeRsp				orVoltag	rVoltage		
				e (1D) to 11	(1Byte,Uni		
				(1Byte,U	t: 100mv)		
				nit:			
				100mv)			
ConfigRepo	R311	0x01		MinTime	MaxTime(BatteryChang	
rtReq	A/	0,101		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
raneq	R718			Unit:s)	Unit:s)	Unit:0.1v)	neserved (15) tes); med oxoo)
ConfigRepo	DA/R	0x81	0x02/	Status(0		J	X
rtRsp	718D	0,101	0x1A/	x00_suc		Reserved (8B	ytes,Fixed 0x00)
	B/R7		0x1B/	cess)			, we will also the second
ReadConfig	18J/		0x21/			1	
ReportReq	R718	0x02	0x25/		Re	eserved (9Bytes,F	ixed 0x00)
-11	LB/		0x1D/	MinTime(MaxTime		
	R718		0x1C	2bytes	(2bytes	BatteryChang	
ReadConfig	F/R7	0x82		Unit:s)	Unit:s)	e(1byte	Reserved (4Bytes,Fixed 0x00)
ReportRsp	18E			J		Unit:0.1v)	, , , , , , , , , , , , , , , , , , , ,
				- (,	
ConfigRepo		0x01		MinTime	MaxTime(BatteryChang	
rtReq				(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
			1	Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo		0x81		Status(0			
rtRsp	R311			x00_suc		Reserved (8B	ytes,Fixed 0x00)
	W		0x06	cess)			
ReadConfig		0x02			D.	eserved (9Bytes,F	Sived OvOO)
ReportReq		UXUZ			n.e	eserveu (96ytes,r	ixed 0x00)
ReadConfig				MinTime	MaxTime(BatteryChang	
ReportRsp		0x82		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
пероппар				Unit:s)	Unit:s)	Unit:0.1v)	
	_		_				
ConfigRepo		0x01		MinTime	MaxTime(BatteryChang	
rtReq				(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
				Unit:s)	Unit:s)	Unit:0.1v)	
C(' - D	RB02	0.01	0x10/	Ch. 1		,	
ConfigRepo	I/R71	0x81	0x31	Status(0		D- 1/5-	
rtRsp	8T			x00_suc		Reserved (8B	ytes,Fixed 0x00)
DandO- C	-			cess)			:d 000\
ReadConfig		0x02			Re	eserved (9Bytes,F	ixea uxuu)
ReportReq							

ReadConfig				MinTime	MaxTime(BatteryChang	
ReportRsp		0x82		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
				Unit:s)	Unit:s)	Unit:0.1v)	
	T	T	T				
ConfigRepo		0x01		MinTime	MaxTime(BatteryChang	
rtReq				(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
				Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo	R718	0x81		Status(0			
rtRsp	WB/		0x12/	x00_suc		Reserved (8B	lytes,Fixed 0x00)
	R718		0x32	cess)			
ReadConfig	WA	0x02	UNUZ		Re	eserved (9Bytes,F	ixed 0x00)
ReportReq		0.02					$\cdot \wedge$
ReadConfig				MinTime	MaxTime(BatteryChang	
ReportRsp		0x82		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
керопкар				Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo		0x01		MinTime	MaxTime(BatteryChang	
rtReq				(2bytes	2bytes_	e(1byte	Reserved (4Bytes,Fixed 0x00)
				Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo		0x81		Status(0	X		
rtRsp	RA02			x00_suc		Reserved (8B	ytes,Fixed 0x00)
	Α		0x0A	cess)			
ReadConfig		2 22				1/05	
ReportReq		0x02			Re	eserved (9Bytes,F	ixed UXUU)
D 10 %				MinTime	MaxTime(BatteryChang	
ReadConfig		0x82	1	(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
ReportRsp				Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo		0x01		MinTime	MaxTime(BatteryChang	
rtReq		M		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
•				Unit:s)	Unit:s)	Unit:0.1v)	
ConfigRepo		0x81		Status(0			
rtRsp				x00_suc		Reserved (8B	ytes,Fixed 0x00)
	RA02		0x11	cess)		•	,
ReadConfig	С	_		,	Re	eserved (9Bytes,F	ixed 0x00)
ReportReq		0x02				. , ,	•
				MinTime	MaxTime(BatteryChang	
ReadConfig		0x82		(2bytes	2bytes	e(1byte	Reserved (4Bytes,Fixed 0x00)
ReportRsp				Unit:s)	Unit:s)	Unit:0.1v)	, (
	I .	1	I .		/	,	
ConfigRepo		0x01		MinTime	MaxTime(
rtReq	RA07	2,01	000	(2bytes	2bytes	D	and (FD) too Fired 0: 00\
· meq	W		0x0C	Unit:s)	Unit:s)	Reserv	ved (5Bytes,Fixed 0x00)
				Offic.3)	Offic.3)		

ConfigRepo rtRsp		0x81		Status(0 x00_suc cess)		Reserved (8	3Bytes,Fixed 0x00	D)	
ReadConfig ReportReq		0x02		Reserved (9Bytes,Fixed 0x00)					
ReadConfig ReportRsp		0x82		MinTime (2bytes Unit:s)	MaxTime(2bytes Unit:s)	Rese	erved (5Bytes,Fixe	ed 0x00)	
SetSensorP araReq		0x03		LineLeng th(2Byte s,Unit:10 cm)	Sensitivity (1Byte,Hih g_0x00,Mi d_0x01,Lo w_0x02)	Rese	erved (6Bytes,Fix	ed 0x00)	
SetSensorP araRsp		0x83		Status(0 x00_suc cess)		Reserved (8	Bytes,Fixed 0x00	0)	
GetSensorP araReq		0x04		Reserved (9Bytes,Fixed 0x00)					
GetSensorP araRsp		0x84		LineLeng th(2Byte s,Unit:10 cm)	Sensitivity (1Byte,Hih g_0x00,Mi d_0x01,Lo w_0x02)	Rese	erved (6Bytes,Fixe	ed 0x00)	
ConfigRepo		0x01		MinTime	MaxTime(BatteryChan	TemperatureC	illuminance	
rtReq			4	(2bytes Unit:s)	2bytes Unit:s)	ge(1byte Unit:0.1v)	hange(2byte Unit:0.01℃)	(2byte Unit: 1Lux)	
ConfigRepo rtRsp		0x81	O'	Status(0 x00_suc cess)		Reserved (8	BBytes,Fixed 0x00))	
ReadConfig ReportReq	Ô	0x02		Reserved (9Bytes,Fixed 0x00)					
ReadConfig ReportRsp	RB11 E/RB 11E1	0x82	0x03/ 0x07	MinTime(bytes Unit:s)	2 MaxTi me(2by tes Unit:s)	BatteryChan ge(1byte Unit:0.1v)	TemperatureC hange(2byte Unit:0.01℃)	illuminance Change (2byte Unit: 1Lux)	
SetIRDisabl eTImeReq		0x03		IRDisableT me(2byte Unit:s)	i IRDecti onTime	Rese	erved (7Bytes,Fixe	ed 0x00)	
SetIRDisabl eTImeRsp		0x83		Status(0x0 _success)		Reserved	(8Bytes,Fixed 0x	00)	
GetIRDisabl eTImeReq		0x04				eserved (9Bytes	s,Fixed 0x00)		

GetIRDisabl eTImeRsp		0x84		IRDisableTi me(2bytes Unit:s)	IRDecti onTime (2bytes Unit:s)	Reser	ved (7Byt	es,Fixe	d 0x00)
ConfigRepo rtReq		0x01	- 0x04	MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChan ge(1byte Unit:0.1v)	Illuminar ange(2b Unit: 1	ytes	Reserved (2Bytes,Fixed 0x00)
ConfigRepo rtRsp	R311 G	0x81		Status(0x00 _success)	Reserved (8Bytes,Fixed 0x00)				
ReadConfig ReportReq	9	0x02	0.04	Reserved (9Bytes,Fixed 0x00)					
ReadConfig ReportRsp		0x82		MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChan ge(1byte Unit:0.1v)	Illumina hange(2 s Unit:	2byte	Reserved (2Bytes,Fixed 0x00)
ConfigRepo rtReq		0x01	0x1E	MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChang e(1byte Unit:0.1v)	Illum	Illuminancechange(4bytes Unit: 1Lux)	
ConfigRepo rtRsp	R718	0x81		Status(0x00 success)	Reserved (8Bytes, Fixed 0x00)				
ReadConfig ReportReq	G	0x02		Reserved (9Bytes,Fixed 0x00)					
ReadConfig ReportRsp		0x82		MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChang e(1byte Unit:0.1v)	Illum	Illuminancechange(4bytes Unit: 1Lux)	
			1	T	T		T		
ConfigRepo rtReq	R718 KB	0x01	0x23	MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChang Unit:0.1			
ConfigRepo rtRsp		0x81		Status(0x00 _success)		Reserved (8Bytes,Fixed 0x00)			
ReadConfig ReportReq		0x02 0x82		Reserved (9Bytes,Fixed 0x00)					
ReadConfig ReportRsp				MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	BatteryChang Unit:0.1	-		sistive (4bytes nit: 10hm)

ConfigRepo rtReq		0x01		MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	Reserved (5By	tes,Fixed 0x00)		
ConfigRepo rtRsp		0x81		Status(0x00 Reserved (8Bytes,Fixed 0x00) _success)			xed 0x00)		
ReadConfig ReportReq		0x02			Reserved (9Bytes,Fixed 0x00)				
ReadConfig ReportRsp		0x82		MinTime(2 bytes Unit:s)	MaxTi me(2by tes Unit:s)	Reserved (5By	tes,Fixed 0x00)		
SetLDOSetti ngReq		0x03	LDO's Altiud(2bytes)	LDO's PSU(2bytes)	Reserved (5Bytes,Fixed 0x00)			
SetLDOSetti ngRsp		0x83		Status(0x00 _success)	Reserved (8Bytes,Fixed 0x00)				
GetLDOSetti ngReq		0x04		Reserved (9Bytes,Fixed 0x00)					
GetLDOSetti ngRsp		0x84		LDO's Altiud	(2bytes)	LDO's PSU(2bytes)	Reserved (5Bytes,Fixed 0x00)		
ORPCalibrat eReq	RA07 /R726 /R72	0x05	0x05/ 0x09/ 0x0D	StandORP(2bytes,86m v Or 256 mv)		Reserved (7Bytes,Fixed 0x00)			
ORPCalibrat eRsp	7	7 0x85	OXOD	Status(0x 00_succe ss)		Reserved (8Bytes,Fix	red 0x00)		
PHCalibrate Req		0x06	7	StandPH(2b) Or 4PH Or 9	•	Reserved (7By	tes,Fixed 0x00)		
PHCalibrate RSP	× (0x86	Status(0x 00_succe ss) Reserved (8		Reserved (8Bytes,Fix	(8Bytes,Fixed 0x00)			
NTUCalibrat eReq		0x07		StandNTU(2b fullscalent	•	Reserved (7By	tes,Fixed 0x00)		
NTUCalibrat eRsp		0x87		Status(0x 00_succe ss)		Reserved (8Bytes,Fixed 0x00)			
SetWireLen gthReq		0x08		Lenght(2 bytes,Uni t:1cm)	es,Uni Reserved (7Bytes,Fixed 0x00)				
SetWireLen gthRsp		0x88		Status(0x 00_succe ss)		Reserved (8Bytes,Fixed 0x00)			
GetWireLen gthReq		0x09		1	R	eserved (9Bytes,Fixed 0x0	00)		

	1		1	T				
GetWireLen gthRsp		0x89		Lenght(2 bytes,Uni	Reserved (7Bytes,Fixed 0x00)			
gtinsp				t:1cm)				
				ACKOnOff(1				
SetAckOnOf		0x0F		Byte 1_Ack	Reserved (8Bytes,Fixed 0x00)			
fReq		UXUF		ON	Reserved (abytes, Fixed 0x00)			
				0_AckOff)				
SetAckOnOf		0x8F		Status(0x00	Reserved (8Bytes,Fixed 0x00)			
fRsp	ALL(0	UXOF	0xFF	_success)	Reserved (obytes, Fixed 0x00)			
GetAckOnOf	xFF)	0x0E		Reserved (9Bytes,Fixed 0x00)				
fReq		UXUE						
				ACKOnOff(1				
GetAckOnOf		0x8E		Byte 1_Ack	Posarvad (Phytos Fixed 0x00)			
fRsp		UXOE		ON	Reserved (8Bytes, Fixed 0x00)			
				0_AckOff)				
ResetReq	ALL(0	0x0D	0xFF		Reserved (9Bytes, Fixed 0x00)			
ResetRsp	xFF)	0x8D	UXFF		Reserved (9Bytes,Fixed 0x00)			
		0x0C		ADROnOff(
C-+ADDO-O				1Byte				
SetADROnO				1_ADR	Reserved (8Bytes,Fixed 0x00)			
ffReq				ON				
				0_ADROff)				
SetADRRsp		000	4	Status(0x00	Decembed (OD the Fixed 0, 00)			
Rsp	ALL(0	0x8C		_success)	Reserved (8Bytes,Fixed 0x00)			
GetADROnO	xFF)	xFF)		000	0xFF	Pacaryad (QRytas Fixed (VOO)		
ffReq	0x0B			Reserved (9Bytes,Fixed 0x00)				
	•	V		ADROnOff(
C-IABBB				1Byte				
GetADRRsp		0x8B		1_ADR	Reserved (8Bytes,Fixed 0x00)			
Rsp				ON				
				0_ADROff)				
	•							
		0x0A	0xFF	ResumeNet				
	etOnOffRe ALL(0			OnOff(1Byt				
SetResume				e 1_				
NetOnOffRe				ResumeNet	Reserved (8Bytes,Fixed 0x00)			
q				ON				
	xFF)			0_Resume				
				NetOff)				
SetResume		0.0:		Status(0x00	D 1/02 : 5: 10 55			
NetRsp		0x8A	3A	_success)	Reserved (8Bytes,Fixed 0x00)			
<u> </u>	l	l	I					

				I				
GetResume NetOnOffRe		0x09		Reserved (9Bytes,Fixed 0x00)				
q								
GetResume NetRsp		0x89		ResumeNet OnOff(1Byt e 1_Resume Net ON 0_Resume		Reserved (8Bytes,Fixed 0x00)		
				NetOff)				
SetRejoinDu	0×07		0x07	RejoinDuration(2Bytes		Reserved (7Bytes, Fixed 0x00)		
rationReq		UXU7		Unit:1Min)		Reserved (7 bytes,1 fixed 0x00)		
SetRejoinDu		0x87	0xFF	Status(0x00		Reserved (8Bytes, Fixed 0x00)		
rationRsp	ALL(0	(0		_success)	neserved (abytes,) fixed 0x00)			
GetRejoinD	xFF)	0x06		Reserved (9Bytes, Fixed 0x00)				
urationReq	UXUB			Reserved (98ytes,Fixed 0x00)				
GetRejoinD		0x86		RejoinDuratio	Reserved (7Bytes,Fixed 0x00)			
urationRsp		UXOU		Unit:1N	1in)	neserveu (7 bytes, rixeu 0x00)		

Note: mintime present the sensor's sampleperiod, but dont apply on interrupted type sensor's report, such as PIR Sensor, Contact Switch Sensor, etc.

If interrupted type sensor's state change, it send report immediately.

Ack's default value is OFF
ADR 's default value is ON
ResumeNet's default value is OFF