

## Sensor downlink payload

Downlink payloads are sent on the configured port + 1. If configured port is the default (5) then downlink settings should be sent on port 6.

### Payload format

Header byte (0x3E)	Payload length	Settings data	...	Settings data
1 byte	1 bytes	n bytes		n bytes

### Settings data format

Type	Value
1 byte	0-16 bytes

### Possible settings

ID (hex)	Setting	Size	Reboot	Disabled
0x01	AppSKey	16 byte key	■	
0x02	NwkSKey	16 byte key	■	
0x03	DevEUI	8 byte device EUI	■	■
0x04	AppEUI	8 byte application EUI	■	
0x05	AppKey	16 byte key	■	
0x06	DevAddr	4 byte device address	■	
0x07	OTA	1 byte bool		
0x08	Port	1 byte		
0x09	Mode	1 byte		■
0x0A	Ack	1 byte bool		
0x0B	DrDef	1 byte		
0x0C	DrMax	1 byte		
0x0D	DrMin	1 byte		
0x0E	Payload	1 byte		■
0x0F	Power	1 byte		■
0x10	ExtCfg	1 byte		
0x11	PirCfg	1 byte		

<b>ID (hex)</b>	<b>Setting</b>	<b>Size</b>	<b>Reboot</b>	<b>Disabled</b>
0x12	Co2Cfg	1 byte		
0x13	AccCfg	4 byte config		
0x14	SplPer	4 byte period		
0x15	TempPer	4 byte period		
0x16	RhPer	4 byte period		
0x17	LightPer	4 byte period		
0x18	PirPer	4 byte period		
0x19	Co2Per	4 byte period		
0x1A	ExtPer	4 byte period		
0x1B	ExtPwrTime	4 byte time (ms)		
0x1C	TriggTime	4 byte time (s)		
0x1D	AccPer	4 byte period		
0x1E	VddPer	4 byte period		
0x1F	SendPer	4 byte period		
0x20	Lock	4 byte lock code		
0x21	RFU	Not used		■
0x22	LinkCheck	4 byte link threshold, period		
0x23	PressPer	4 byte period		
0x24	SoundPer	4 byte period		
0xFA	Led/Ext	4 bit ext mode, 4 bit LED mode		
0xFB	Version	4 byte version number		■
0xFC	Sleep	4 byte forced sensor sleep (s)		
0xFD	Generic	1 byte length, x byte NFC string		
0xFE	Reboot	0 bytes	■	

## Examples

### Reboot sensor only

<b>3E</b>	<b>01</b>	<b>FE</b>
Header	Length of settings	Reboot

Payload: **3E01FE**

### Set application settings

<b>3E</b>	<b>1C</b>	<b>05</b> 2B7E1...F4F3C	<b>04</b> 00...00	<b>07</b> 01
Header	Length of settings	Set AppKey (16 bytes)	Set AppEUI (8 bytes)	Enable OTAA

Payload: **3E1C052B7E151628AED2A6ABF7158809CF4F3C0400000000000000000701**

### Lock/unlock sensor

<b>3E</b>	<b>05</b>	<b>20</b> 1234FF00
Header	Length of settings	Unlock/lock

Payload: **3E05201234FF00**