

Example of RA02A:

	UTC Timestamp	Local Timestamp	DevAddr	DevEUI	FP...	FCn...	FCn...	RSSI
data	2017-11-28 00:14:02.392	2017-11-28 08:14:02.392	04E87772	00137A000000A02A	6	1		-31.0

Mtype: UnconfirmedDataUp
 Flags: ADR : 1, ADRAckReq : 0, ACK : 0
 Mac (hex): -
Data (hex): 010a011b0000000000000000
 Data size (bytes): 11
 AirTime (s): 1.318912

LRR	RSSI	SNR	ESP	CHAINS timestamp {GPS NTP LOCAL GPS_RADIO}
000003D7	-31.0	9.75	-31.437258	CHAIN[0]:2017-11-28T01:14:02.392+01:00 (-)

Device [Lat (solv): - Lat: - Lon (solv): - Lon: - Loc radius: - Loc time: - Alt: - Alt radius: - Acc: - North Velocity: - East Velocity: -]
 Reporting Status: On time
 ISM Band: CN 470-510MHz
 AS ID :TWA_100002596.2064

ReportDataCmd(UpLink):

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

RA02A Payload:

RA02A	0x0A	0x01	Battery(1Byte, unit:0.1V)	FireAlarm(1Byte 0:noalarm 1:alarm)	HighTempAlarm(1Byte 0:noalarm 1:alarm)	Reserved(5Bytes, fixed 0x00)

Data(hex): 010a011b0000000000000000

1st byte(01): Version

2nd byte(0a): DeviceType 0x0a — RA02A

3rd byte(01): ReportType

4th byte(1b): Battery — 2.7V

5th byte(00): FireAlarm — noalarm

6th byte(00): HighTempAlarm — noalarm

Example of R711:

R711 Payload:

R711/R7	0x01/0x0B/0x13	0x01	Battery(1Byte, unit:0.1V)	Temperature(Signed 2Bytes, unit:0.01 ° C)	Humidity(2Bytes, unit:0.01 %)	Reserved(3Bytes, fixed 0x00)
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Data(hex): 0101011e09e21a9e000000

1st byte(01): Version

2nd byte(01): DeviceType 0x01 — R711

3rd byte(01): ReportType

4th byte(1e): Battery — 3.0V, $1e_{hex} = 30_{dec}$, $30 \times 0.1 = 3.0$

5th6th byte(09e2): Temperature — 25.30°C, $09e2_{hex} = 2530_{dec}$, $2530 \times 0.01 = 25.30$

7th8th byte(1a9e): Humidity — 68.14%, $1a9e_{hex} = 6814_{dec}$, $6814 \times 0.01 = 68.14$

The value of temperature field is a signed integer and the highest bit represent positive(0) or negative(1).

If the value represent negative number, we need to calculate complement.

For Example:

Data(hex): 01130124FF39265B000000

1st byte(01): Version

2nd byte(13): DeviceType 0x13 — R718AB

3rd byte(01): ReportType

4th byte(24): Battery — 3.6V, $24_{hex} = 36_{dec}$, $36 \times 0.1 = 3.6$

5th6th byte(FF39): Temperature — -1.99°C

$0x10000 - 0xFF39 = 0xC7_{hex} = 199_{dec}$, $199 \times 0.01 = 1.99$

7th8th byte(265B): Humidity — 98.19%, $265B_{hex} = 9819_{dec}$, $9819 \times 0.01 = 98.19$