

LoRaWAN packet format

For P1AP and P1AT devices from Moire Labs

Measurement packet FPort == 1

Full packet example (HEX) (18 bytes): 0x03 E5B8B441 0000C741 E5B8A441 0000C841

byte no.	example (HEX)	description
0	03	unit of measure (megapascal - see table below)
1-4	E5B8B441	MIN value: float - little endian (~22.590)
5-8	0000C741	MAX value: float - little endian (24.875)
9-12	E5B8A441	Average value: float - little endian (~20.590)
13-16	0000C841	Last value: float - little endian (25)

Units of measurement

```
#define UNIT_TYPE_C 0 /**< C = celsius */  
#define UNIT_TYPE_PA 1 /**< Pa = pascal */  
#define UNIT_TYPE_KPA 2 /**< kPa = kilopascal */  
#define UNIT_TYPE_MPA 3 /**< MPa = megapascal */
```

Boot packet FPort == 2

Boot packet example (HEX) (5 bytes): 0x43 c8 41 2f ce

Boot packet starts with byte of value 0x43. Additional 4 bytes follow which have no defined value (can be anything and can be safely ignored). This packet is only send once every time the device connects and registers to LoRaWAN network so it can be used as an indicator of boot of the device.

Battery packet FPort == 3

Battery status indicator packet

byte no.	example (HEX)	description
0	0a	battery level (0-255 non-linear)

Support

For support please contact your distributor or manufacturer directly via www.moirelabs.com
