

Payload:

0-1 frame counter

2-3 ambient temperature 1/10 degrees Celsius

4 - ambient relative humidity 0 - 100%

5-6 barometric pressure in hPa

7-10 raw uncalibrated load cell ADC readout, $\text{weight} = (\text{raw} / \text{calibrationIndex}) - \text{zeroOffset}$

11-12 battery voltage in mV

13 device status, bit 0-1 charge status 1=charged, 2=charging, 3=discharging; bit 2-3 network join status 0=initialized, 1=joining, 2=joined, 3=join failed

Kalibracni data pro zarizeni umiestnenem na Dablickem hrbitove:

calibrationIndexKilogram=65663

zeroOffset=514.3

beta0 = 0.022

Teplotni kompenzace

$\text{compensatedWeight} = \text{uncompensatedWeight} - (\text{temperature} * \text{beta0})$

Priklad payloadu:

2400c7003ada03b4312602730f09

0024 - frameId 36

00c7 - temperature 19.9°C

3a - relative humidity 58%

03da - barometric pressure 986hPa

022631b4 - load cell ADC $36057524 / 65663 = 549,1300123357 - 514.3 = 34,8$ kg temp.uncompensated weight

0f73 - battery voltage, 3955mV

09 - status 0000 10 01 = joined, fully-charged