

G62 LoRaWan Integration Payload Example:

How To Set Digital Outputs

Port 9 is specifically reserved for the Digital Outputs. To Set Trip Parameters, a HEX string must be sent to Downlink Port 1. The string for 30-minute heartbeats is set as follows:

Offset 0 is the sequence number, we will set it to **1** for this example therefore we set the first bit and giving us 0000 000**1** (**01 in Hex**).

For Offset 1 the bits are set to 0000 **0011** (**03 in Hex**) for the default settings. This sets bit 1.0 (Enable Movement Trips) to **true**, 1.1 (Enable Ignition Trips) to **true**, 1.2 (Disable Run Detect Trips) to **false**, 1.3(Transmit runtime/odometer at trip end) to **false**.

For Offset 2 we set the In-Trip Upload period. The default is set to 10 minutes. For minutes we start counting from 127. 127 being zero minutes and 128 being 1 minute, therefore, to get 10 minutes we count to 138 (**8A in Hex**).

For Offset 3 we set the Heartbeat Period. We count intervals of 10 minutes. 10 minutes being 1. Therefore 30 minutes is 3(**03 in Hex**).

For Offset 4 we set the Odometer/Runtime Upload Period. The default is 24 hours. We count in intervals of 1 hour from 1-255 hours. 24 hours would then be 24 (**18 in Hex**)

For Offset 5 we set the Movement trip speed threshold. We count in intervals of 1 KM/H from 0-255. Therefore, to set a default of 10 we count to 10(**0A in Hex**)

For Offset 6 we set the Accelerometer wake up threshold. We count in increments of 1, 1 being equivalent to 63mG of force. To set the default of 1 we count to 1(**01 in Hex**).

For Offset 7 we set the accelerometer wake up time, we can set the default of 10ms by counting to 1(**01 in Hex**)

This would then be combined to this Hex string: **01038A03180A0101**