HYDROID WATER METER PAYLOAD AND DISCRPTION

1. HYDRIOD WATER METER

There are different types of payloads which gives conformation about water consumption, leak and battery capacity.

1.1 Water Consumption and Battery Capacity Payload

This payload is received for every 12 hours from the end node. Each payload consists of water consumption of every two hours and battery percentage.

Example: 4_7_9_9_11_12_98

First 6 numerical data are the data of water consumption for every two hours combinedly 12 hours of data (4_7_9_9_11_12), and last data is battery percentage (98).

Each data is separated using underscore (_) and water consumption value will be always incremented by user consumption. The received water consumption need to be multiplied by 10.

1.2 Leak Detection

If the payload consists of "Leak", keyword consider as leak detected.

1.3 Connected to Network

If the payload consists of "C2N", keyword consider as end node connected to Network Server.

1.4 Device Activation

If the payload consists of "1_98", consider as end node activated.
Note: Payload values might vary some times.

1.5 Tamper Detection

If the payload consists of letter 'TD' after battery percentage then it indicates as device has been tampered.

1.6 Backup Data

You can request backup data by sending a downlink as "BA43" (In hex) and in payload instead of battery percentage it is replaced with letter 'B'. This backup data is the last stored data.
Example: 4_7_9_9_11_12_B

1.7 Set Leak Limit

You can set the leak limit value with keyword as 'AE' (in hex) followed by limit value. The value should be minimum 4 to maximum of 99, internally it will be multiplied by 10. (Example, if value is 15 then leak limit will be set to 150L).
Example: AE3135 (In hex)

2. HYDRIOD WATER METER WITH VALVE CONTROL

The payloads are same as above except water consumption payload. Also, we have few controls for valve control.

2.1 Water Consumption and Valve Status Payload

This payload is received for every 12 hours from the end node. Each payload consists of water consumption of every two hours and battery percentage.
Example: 4_7_9_9_11_12_vc / 4_7_9_9_11_12_vo

"vc" is valve close and "vo" is valve open.

First 6 numerical data are the data of water consumption for every two hours combinedly 12 hours of data (4_7_9_9_11_12). Each data is separated using underscore (_) and water consumption value will be always incremented by user consumption. The received water consumption need to be multiplied by 10.

2.2 Close Valve

To close the valve, value with 1F (In hex) need to send as downlink. After a successful operation it will send a data as "vc" indicating valve has been closed.

2.3 Open Valve

To close the valve, value with 1E (In hex) need to send as downlink. After a successful operation it will send a data as "vo" indicating valve has been opened.

2.4 Power Down

If payload consist of "PD" at the end, then device is indicating that there is a power down.