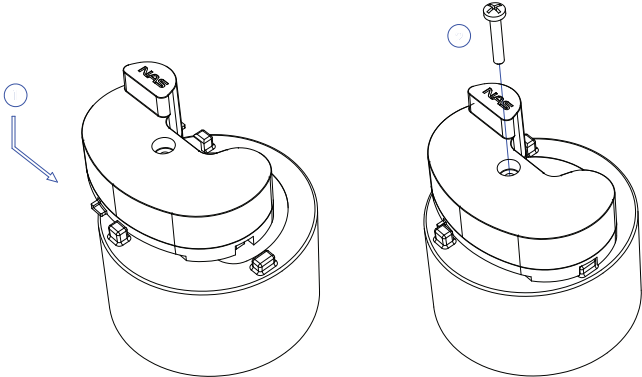


LoRaWAN™ Cyble Sensor

CM3030

1 CYBLE SENSOR INSTALLATION

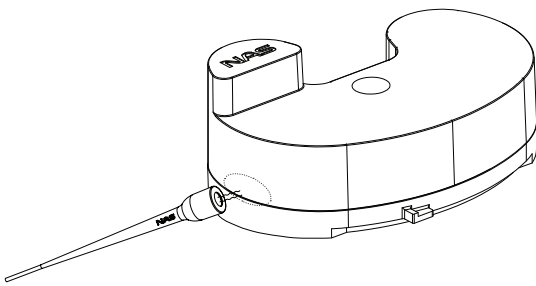
Install the sensor onto the water meter as indicated on the diagram. Fasten the sensor.



2 SWITCHING ON

While the water IS NOT running. Hold the magnet against the device (see illustration below) for at least 1 second (with AU/US915 see optional Step 4).

- The sensor starts to initialize and the red light will flash (at least 5 seconds).
 - If the sensor failed to initialize the red light will stay on for 5 sec.
- Otherwise it will try to register to the network and the green light is flashing (at least 5 sec).
 - If it failed to join, the red light will stay on for 5 sec.
- If the network join was successful, the green light will stay on for 5 sec.
- The sensor starts to calibrate and green light will start double flashing. Open the water so meter starts to count. Up to 10 litres of water is needed to flow through the water meter in order to calibrate the sensor. The calibration window is open for 10 minutes. If the calibration is successful green light will stay on for 3 sec, if it fails the sensor shuts down.



3 TROUBLESHOOTING

If the device did not register to the network, it can be for 2 reasons:

- The device is not allowed in the network and it must be registered with the service provider.

The necessary data is on a separate sticker in the package (DevEUI, AppEUI, AppKey). Once the device is registered repeat the switching on procedure described under point 2.

- There is no LoRaWAN reception. Contact your LoRaWAN service provider.

4 REGION SPECIFIC TASK FOR AU/US915 (OPTIONAL)

For AU/US915 devices it is possible to set the ChMask already on activation to speed up join procedure.

It is possible to mask channel in groups of 8x125KHz channel + 1x500KHz channel. See illustration below.

To mask the channels on initialisation follow the normal switching on procedure in Step 2, but do not release the magnet. After couple of seconds, blue led will flash. This will indicate the ChMask group. First flash means 0..7+64 if you keep holding the magnet then next blue flash will indicate 8..15+65 etc (increasing by 8+1 channels with each flash). Once the desired ChMask has been chosen the magnet should be released and steps followed according to the normal procedure.

Number of Blue flashes	ChMask mask applied
0	none (0..64+65..71)
1	0..7+64
2	8..15+65
3	16..23+66
4	24..31+67
5	32..40+68
6	41..49+69
7	50..58+70
8	59..64+71