

Application Note BLUE PUCK T - PROBE Installation & usage recommendation



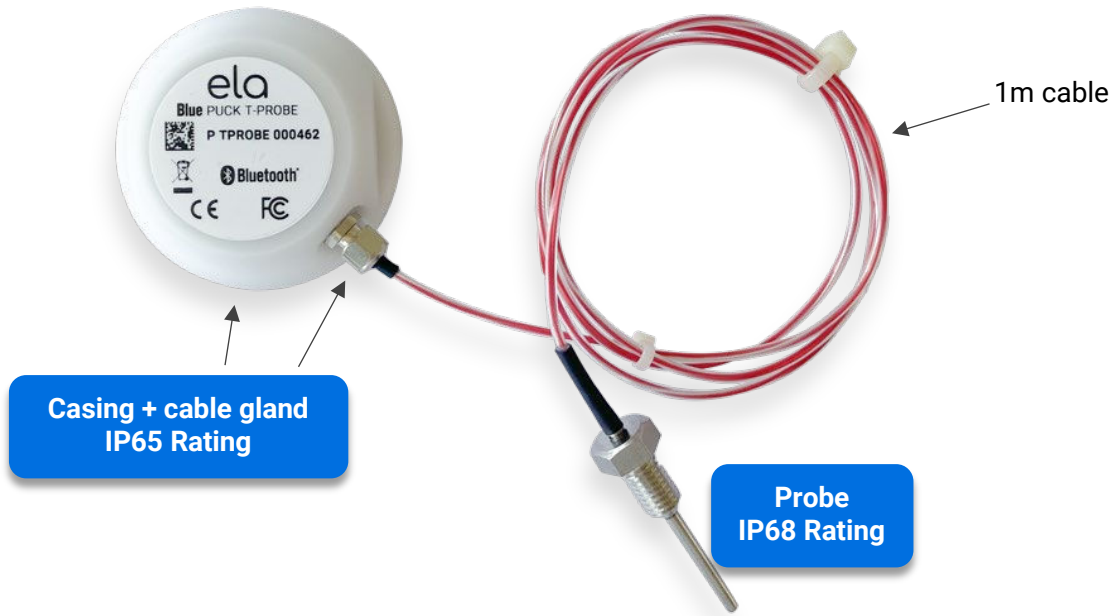
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1. ABOUT THE BLUE PUCK T-PROBE

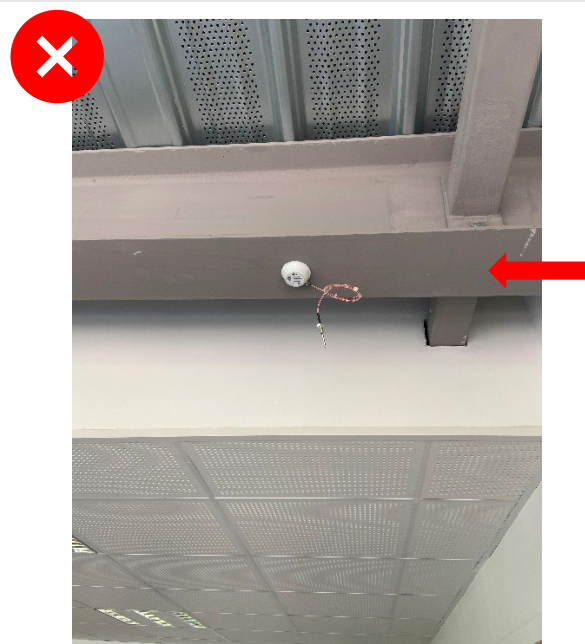
The BLUE PUCK T-PROBE is equipped with an **external temperature probe** connected to the electronic box through a **cable gland**, for waterproofing, going through the casing getting an **IP65 rating**.



2. RECOMMENDATIONS FOR ENSURING PRODUCT WATERPROOFING

To guarantee an optimal protection to the weather and humidity condition, it is recommended to respect the following rules for cable gland equipped product:

Install the casing on a vertical & flat surface.
(Neither on the ceiling nor the ground)



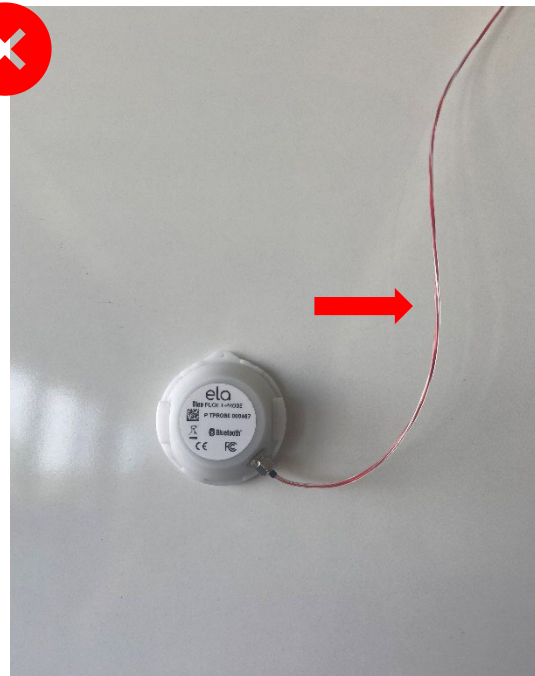
Orient the cable gland facing the ground.

To prevent potential accumulation of water onto the cable gland



Do a loop with the cable

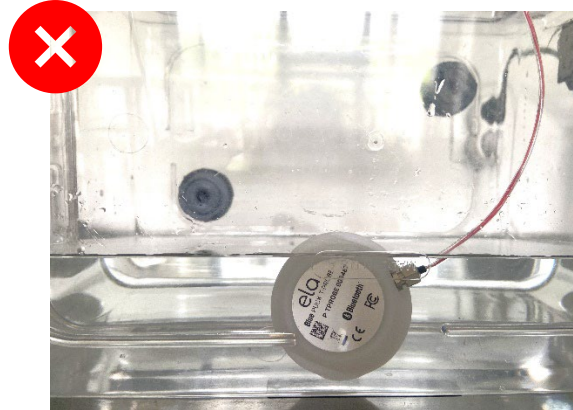
To prevent droplets of water being near the cable gland



It is advised to ensure that the IP65 rating is the most appropriated waterproof level in the installation zone, especially regarding washing procedures.

It is for example NOT recommend for the following zones:

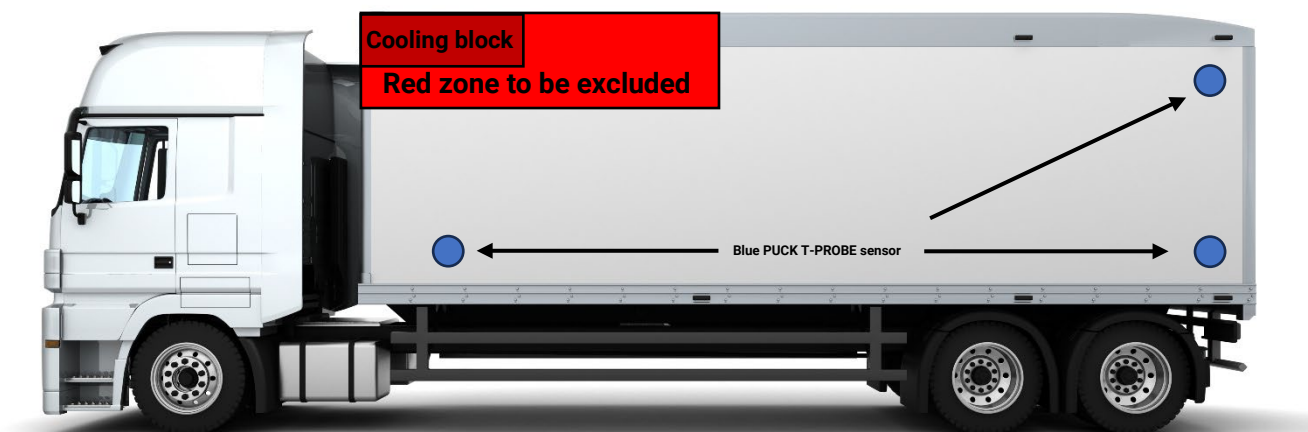
- Into water, even for a short amount of time, where the IP68 is required.



- Where the procedure included **high pressure washing** or where it is common practice, in which the IP69K rating is required. Those common practices can be found in the following examples:
 - Outside of vehicles or trailers
 - On construction equipments
 - Inside cold chain trailers

3. RECOMMENDATION FOR COLD CHAIN TRAILER OR COLD MONITORING INSTALLATION

It is advised **NOT** to have the casing of the BLUE PUCK T-PROBE inside the cold monitored area if possible. If it is not possible, the best is to have them positioned according to the previous recommendations and the farthest possible from the cooling block:






It also recommended to consult the autonomy curve available on our website to anticipate the behaviour of the sensor at the temperature range it is intended to operate.

4. RECOMMENDATION ALLOWING HIGHEST LONGEVITY OF THE PRODUCT

The BLUE PUCK T-PROBE is equipped with an external temperature probe connected to the electronic box through a cable gland. It allows to have a differentiation between the measured zones, that can vary between negative and positive temperature, and the casing positioning.

To ensure the highest possible longevity, it is advised to have **the casing placed in an ambient temperature zone**.

Also, to keep the BLUE PUCK T-PROBE in a good working state, it is advised **NOT** to:

<p>Pull firmly onto the cable, as it could move the cable into its cable gland and damage the internal electronic connections</p>	<p>Try to screw or unscrew the cable gland, that could cause a degradation of the water resistance of it</p>	<p>Have the BLUE PUCK T-PROBE submitted to fall, shock, or unreasonably high vibrations</p>
		

5. RECOMMENDATION FOR OPTIMAL PRODUCT FUNCTION

The BLUE PUCK T-PROBE is a wireless product that communicates in the **2.4GHz frequency**. It is recommended to follow the below rule **to ensure optimal communication** between the BLUE PUCK T-PROBE and the reception device (gateway, tracker, smartphone, etc...):

- **Leave the top part of the casing** (where the label is) **away from any physical element**, particularly metallic elements that could make the antenna go out of tune. It is recommended to have a minimal distance of a few centimeters between the top of the casing and any surface.
- **Install the casing directly in line of sight from the reception device** for ideal reception conditions, or if impossible get as few obstacles as possible between the casing and the reception device. To ensure that the reception device properly receive the signal transmitted by the BLUE PUCK T PROBE with a powerful enough level of reception (RSSI).