



## **DASPOS Y23 User Guide.**

### **Introduction.**

The DASPOS Y23 detector monitors both for rising temperature and the presence of Hydrocarbons – either as gasses or fumes – in the area, where the detector is mounted. The sensor also reacts on the hydrogen emission from charging batteries.

Every detector gives out both a visible and audible signal with a LED-light and a buzzer. At the helm the button will also signal with both light and sound.

The Detectors can be set at 2 alarm threshold levels: High and Low. The setting is individual to each detector.

All detectors are set to LOW alarm threshold level upon delivery. We recommend to start with detectors set to LOW level when installed. If the ambient level of Hydrocarbons in the engine compartment triggers the LOW alarm setting the setting can be raised to HIGH until the necessary cleaning / repair has been carried out. When cleaning / repair have been performed we recommend to set the threshold level to LOW again in order to discover fuel leakages as quickly as possible.

Shifting between LOW and HIGH level is done by pressing the button on the detector, and holding it, at first the LED will start flashing in e.g Green – after a few seconds the LED will flash red, then the button can be released, and the detector will be set to HIGH. Flashing green/red = LOW to HIGH / When flashing red / green = HIGH to LOW.

Detectors and Helm buttons can be connected with several units depending on the individual need. If there is a need for a Helm button both at the indoor Helm station and at the Helm station at the flybridge, it is possible.

The Helm button is rated IP67 and can be mounted outdoors. Pls. Note that it is only the top of the Helm button which is waterproof and suited for outdoor use. The electronic parts inside the helm button housing should be protected from Water and moist.

### **Description:**

DASPOS Y23 will – when everything is normal show a steady green LED-light, the Helm button will also have a steady green light.

If there is an alarm on one or more detectors, all detectors and buttons start flashing a red or orange light, and the buzzers in all detectors and buttons will also sound.

When pressing the button on any detector or the buttons at the Helm station(s) the buzzers in the entire system will be silenced. When acknowledging the alarm – by pressing a button – The helm station buttons will now shift from flashing red or orange to steady red or orange. The LED on the detectors will change from flashing red or orange to steady green, red or orange. The detectors which is in normal condition the light will be steady green. For detectors with alarm the LED will be steady orange (Temperature) or red (Hydrocarbons). The detectors will go back to steady green once the temperature or Hydrocarbon level has normalized. The Helm button will change back to green approx. 10 seconds after the last detector has changed back to normal.

In order to determine which detector gave the alarm, it is necessary to check all detectors for red or orange light.

If the Helm button light is blue, this indicates a communication error within the system.

It is possible to dim the green light in the Helm button at night. Press the button and hold it until the light is dimming up or down. It is NOT possible to dim the orange or red alarm indication lights.

### **Technical Data:**

Supply voltage: 12-24 V (DC)

Normal power consumption per unit: 30 mA at 12,0 V (DC) or max. 1,0 Watt



Dimensions:

Detector:  $\varnothing$  59,0 mm, h 35,0 mm (39,5 mm incl. button)

Helm button:  $\varnothing$  59,0 mm, h 40,0 mm (41,5 mm incl. button), When mounted in the console the Helm button will be:  $\varnothing$  59,0 mm, h 10,5 mm incl. button.

#### **Installation guide:**

Detectors and Helm buttons in the system is connected by a 4-core cable.

DASPOS Y23 Cable can be purchased, with these colours on the cores:

White: 12-24 VDC

Brown: 0 V (Ground)

Yellow: Signal A

Green: Signal B

Connect 12-24 VDC terminals to the white core every time, 0V GND terminals to the brown core every time, A terminals to the Yellow core every time and B terminals to the Green core every time.

A and B must be connected through the resistor (Included in the box) in each end of the circuit.

12-24 VDC and 0V GND must be connected to a power source (Battery).



#### **Mounting:**

The Detectors can be mounted with 2 counter sunk screws  $\varnothing$  4 mm. It should be screws suitable for the material of the mounting surface.

The Helm button is mounted through a drilled  $\varnothing$  50 mm hole in the console with the included nut. Place the O-ring in the groove and tighten the nut by hand.

#### **Starting the system:**

When the system is turned on, either first time or if the power have been OFF there is a warm-up period of approx. 5 minutes Detectors and Helm buttons will be flashing rapidly green during the warm-up.



The expected lifespan of the gas-sensor is approx. 25 months from first time the sensor is connected to power.

The exchange of gas-sensors can easily be done by the user. New Gas-sensors can be purchased through DASPOS.

Pls. perform a test every 6 months by use of lighter gas.

**NOTE!:** The Y-23 system is CE-marked for use in Pleasure boats. In commercial vessels of all size and any ship over 24,0 meters in length it is mandatory to have a WHEEL-mark.

The Y-23 has not yet been WHEEL-marked.