

# AIRBUL MODULATOR



**The AIRBUL modulator is a pneumatic or electro pneumatic gauge, designed to be used for the measuring of the water level in ballast tanks or other kinds of tanks such as service tanks, daily tanks etc...**

It is based on the principle of “bubbling”, that is well known for its sturdiness and reliability. This product may be used either alone, when integrated into a single channel cabinet (refer to the AIRBUL LOCAL SINGLE datasheet) or as the basic component of the AIRBUL CABINET, that may have up to 30 channels (refer to the corresponding datasheet).

The AIRBUL REGULATOR consists in three main parts:

- an **air modulator**, designed to detect the counter pressure generated by the water height when compressed air is injected into the ballast tank pipe,
- a **small PCB**, that converts the measured pressure into either a mV or 4-20 mA signal,
- an **airpurge**, directly mounted on the top of the tank, including a non return valve.

## ↳ Technical data

**Accuracy:** 0,2% of nominal range

**Air supply pressure:** 4 to 10 bar (dry and clean air)

**Air quality:** particle size 5 microns, dew point -20°C, oil content < 1mg/m<sup>3</sup>

**Bubbling flow:** 10 l/hr (regulated)

**Modulator output (option):** 4-20 mA or mV

**Local display (cabinet):** pneumatic or electro-pneumatic, upon requirement

Protection against polarity reversal

**Operating temperature:** -40°C to +85°C

**Material (air modulator):** light alloy

**Material (deck air purge):** Stainless steel and brass

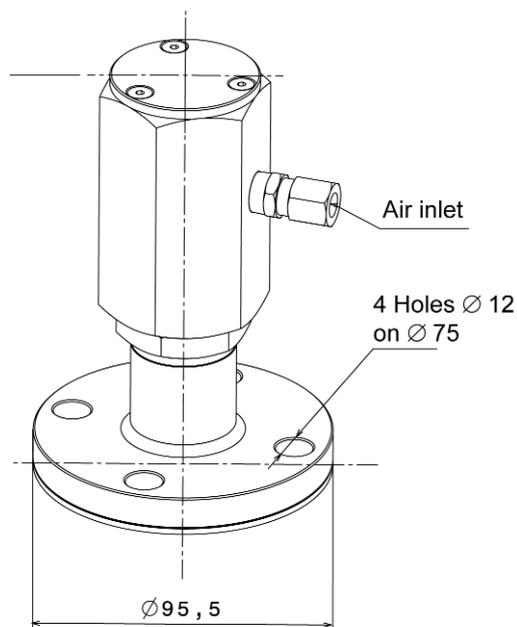
**Purge Head outlet connection:** 1/4" BSP, 8 mm

Major classification societies approvals

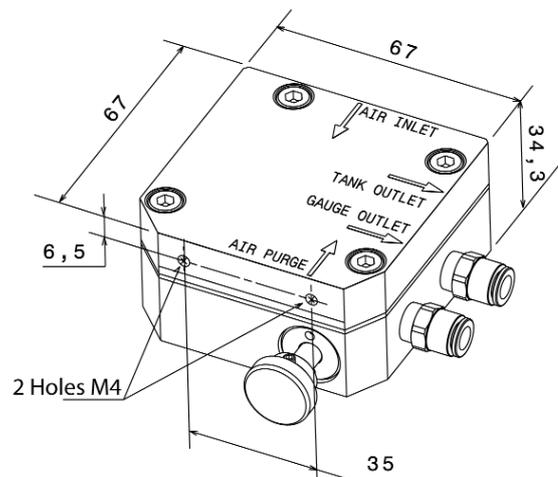
**Range:** 0-40m tank height or draft

## ↳ Dimensional drawings

### ↳ Purge Head



### ↳ Modulator



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