

TIMONTM 2012 Tank contents gauge with additional features:

- Tank level and actual contents at a glance
- Individual tank table with up to 20 measuring points easily programmed with a notebook or a PC via a USB Interface
- 2 relay outputs with programmable set points, releasing points and working direction. In addition, one potential free error alarm contact.

Tank curve and Display:

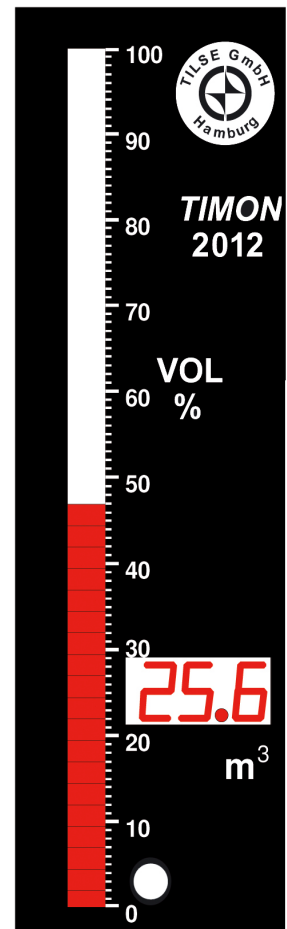
The combined bargraph/digital indicator **TIMONTM 2012** is designed for indication of tank contents on seagoing vessels. Tank contents are shown by an LED-display of 3 digits and also by a LED-bargraph of 50 LED's, giving the advantage of both digital (higher accuracy showing quantity) and analogue indication (showing tank level).

The digital indication works as a floating-point indicator. Values ranging from 0 to 99.9 are shown to one decimal place. Values ranging from 100 to 999 are shown as integers. Thus although the instrument only shows three digits an accuracy of 0.1 % is always achieved.

Due to its very small casing, this instrument requires smaller space for mounting thus saving costs for additional cabinet space.

The tank curve can be programmed as a spline with up to 20 points (current level and related volume). Programming of the tank volume curve is easily achieved with a simple terminal program via the USB interface.

The indicator is available for units of m³, l and gall.



Self-adjusting to surround illumination:

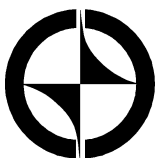
The built in optical sensor adjusts the brightness of the digital display and the bargraph display to the surrounding light levels.



Alarm and Monitoring:

By means of the two built-in relays the instrument additionally allows monitoring of tank contents and / or sensor status (broken, short-circuited). Each relay may be individually programmed with switching point, releasing point, and the direction of operation (energised / de-energised when exceeding the switching point). For further details see programming instructions.

Via a third error alarm contact the actual errors signalled for the transmitter can be analysed, i.e. broken wires, shortfall or overstepping of the measuring area.



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Programming via the USB interface

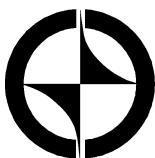
To program the display it is only necessary to connect to a standard PC or notebook. The simple terminal program is already a part of WINDOWS or LINUX.

No additional power supply is necessary for this operation.

Technical Data

Casing	Plastic casing for panel mounting according to DIN 43700 / IEC61554 48mm x 144mm x 85mm (L x H x D)
Protection class	Front side: IP 54
Supply Voltage	24 VDC (18..36VDC) max. 200mA, not galvanic isolated
Signal Input	0..10V 0/4..20mA
Transmitter supply	25 mA max.
Relays	2 potential free shutters, fully configurable function 1 potential free shutter for common alarm, function (NO/NC) fully configurable 1A max.
Characteristic Bargraph display	Linear or according to a tank table with up to 20 definition points 50 LEDs each approx. 2,5x5mm indicating 0-100% with a resolution of 2%
Digital display range	-99..999
Digital display presentation	The presentation format depends on the value to be displayed and will be chosen automatically -99..0 0..99.9 100..999 If the value cannot be display (less than -99 or higher than 999) the display shows ---.
Reading accuracy	0,2%+1 digit (related to full indication range 20mA or 10V)

We reserve the right to change the design without notice.



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