

TIMON® 2012W - the universal bargraph/digital indicator for tank contents with additional features and built-in Web interface:

- Individual tank tables with up to 20 measuring points, easily programmed with a notebook or a PC via a USB Interface
- 2 potential free shutters with free programmable switch-points and direction of operation, and with an additional third error alarm contact.
- Built-in Ethernet Interface with easy access to tank contents of other computers, for example machinery management, tank management systems and many others.
- Easy demand of measured tank contents by a common web browser (i.e. MICROSOFT Internet Explorer, OPERA, APPLE Safari or MOZILLA Firefox) with the built-in Web Server via LAN or Internet.
- Web indication of the tank contents either as digital indication (figures) or analogue indication (bargraph).
- Through the print option of the Web browser the current tank contents can directly be printed out.

Tank curve and Display:

The combined bargraph/digital indicator *TIMON® 2012W* is designed for indication of tank contents and draughts on seagoing vessels.

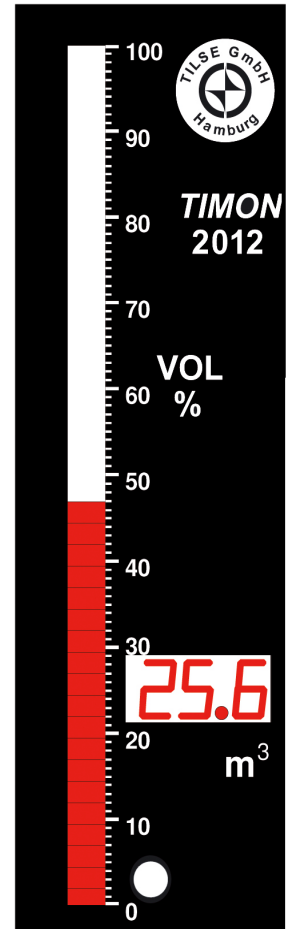
Tank contents are shown as digital values in m³ and in addition by a luminous row of 50 single LED's in %, giving the advantage of both analogue (indication of the relative signal levels) and digital indication (easier and more accurate reading). The digital indication works as a floating-point indicator.

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 even in very small switchboards a complete tank level gauging system with additional functions including level control and remote data transmission can be installed.

The programming of the system (tank curves, switch-points and direction of operation for the relays) is done via a web-interface and a simple web browser.

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.



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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.

Programming via the Web interface

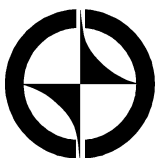
To program the display it is only necessary to connect to a standard PC or notebook, under different system software like WINDOWS or LINUX with a simple Web browser.

The programming is secured by a special safety system and can only be changed with the input of the correct password.

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, function free configurable 1 potential free shutter for common alarm, function (No/NC) free configurable 1A max.
Characteristic	Linear or according to a tank table with up to 20 definition points
Bargraph Display	50 LEDs 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 displayed (less than -99 or higher than 999) the display shows ---.
Reading accuracy	0,2%+-1 digit (related to full indication range 20mA or 10V)
Ethernet interface	10/100 Mbit/s RJ45 female socket (8P8C)

We reserve the right to change the design without notice.



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