CARGO TANK MONITORING SYSTEM WITH LOCAL AND REMOTE INDICATOR
(TLP-100S, TLP-100B, TLP-100MUX, TLP-100D, TLP-100M, SIL-100TLP)

GENERAL
The TLP-100, LIQUID LEVEL is the newest version of magnetic float level gauge for marine tankers which has been developed based on the long time field experience. The detection of float position is conducted by Hall IC elements to eliminate problem of contact fueling and/or accuracy failure caused by existing reed switch system.

By this remarkable sensing system time long stability and maintenance free operation have been achieved.

The measurement is free from the conductivity and/or dielectric constant of the cargo liquids.

Thus TLP-100 is widely suitable for measurement and control of cargo liquid levels at crude oil carriers, coaster tankers, product carriers chemical carrier, etc.

SYSTEM CONSTRUCTION

APPLICATION
This system is for monitoring for level, alarm and temperature of the liquid in cargo tanks.

MULTI-TANK MONITOR: TLP-100D

The cargo monitoring panel will be designed and arranged for level alarm, high temp. alarm and temp level measurement based on the number of tanks and tank locations etc.

The cargo tank monitoring panel gives audible and visible alarm as well as cargo tank level, temp. indication on the mimic board and also external alarm for high and high-high level shall be provided by cargo monitoring panel.

FEATURES

- Compact and cost saving design.
- Hall IC Elements, pure electric position detection.
- Grade up from existing reed switch system.
- Highly reliable and stable for long time operation.
- Highly precision for operation.
- 3 Point of temp. measurement and transmission.
- Separable LCD indicator.
- LCD indicator may be separated from the sensor.
- 2 Core cable data transmission and easy wiring.
- Liquid level and maximum 3 point temp. data are sent to CCR by serial BCD signal through 2 core cable only including power supply to the deck.
- Full line up of CCR indication system.
- Full line up from individual indicator to computer based systems ready to meet for requirements.

SPECIFICATION

- Indication: 10.4 Touch screen LCD
- Serial Port: Two RS232 selectable
- Input: 4-20mA (Level, Temperature, Pressure) 0-10V
- Output: Digital serial code pulse (2 wire system including power supply, exclusive receiving unit is required).

LOCAL GAUGE: TLP-100S

- Detection unit: Level: by magnetic float and Hall IC element.
- Temp.: by PT-100RTD
- Pressure: ceramic sensor

- Accuracy Level: every 5mm (standard)
- every 1mm (option)

- Measuring range Level: max. 20M
- Temp.: -25°C ~ +425°C
- Pressure: 900 ~ 1300mBar

- Indication: By selector type LCD (6 digit indication)
- 3 level: 5mm unit (0 ~ 20000M)
- 2 level: (L: Lower) or (M: Middle) or (U: Upper)

- Output: Digital serial code pulse (2 wire system including power supply, exclusive receiving unit is required).

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