

## TOP MOUNTED MAGNETIC LEVEL INDICATOR

## MODEL - TAN-TMLI

### INTRODUCTION

TANSA make Top Mounted Magnetic Level Indicator is installed outside of a vessel or tank. The liquid level in the tank can easily be observed from the change of the flag color. Optional devices of magnetic switch and level transducer can be added for electrical signal output and level transmitting.

### PRINCIPLE

TANSA make Top Mounted Magnetic Level Indicator indicator utilizes hydrostatic principle to show the liquid level in the tank. A float with a magnet inside rises and drops according to the liquid level change. Magnetic flags will flip as float passes through to indicate liquid level based on magnetic attraction method.

### General Data

Density	: from 0.70 g/cm <sup>3</sup>
Precision for interface or density	: from $\pm 0.01$ g/cm <sup>3</sup>
Measuring Error	: $\pm 10$ mm
Viscosity	: Max 1000mPas
Connection	: Weld End (Standard) / Flanges DIN and ANSI
Weight	: Basic 7 Kg

### Design Data

Mounting	: Top or Side
Operating Pressure	: Up to 50 Kg/cm <sup>2</sup>
Operating Temperature	: -20 to 400°C
Process Connection	: Flanged or Screwed
C-C Distance ( $\pm 3$ mm)	: Up to 6000mm
Flag Display Length	: Up to 6000mm
Specific Gravity	: 0.75 (Min.)
Indicator Roller	: Metallic

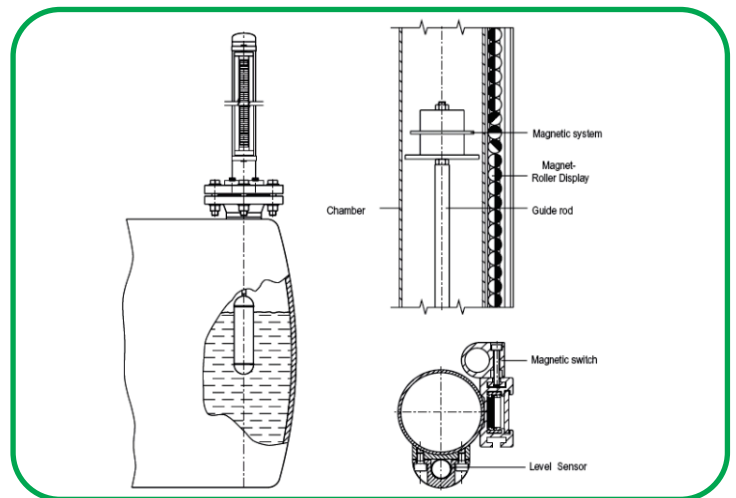
### Optional Accessories

#### Magnetic Level Switches

Reed switches or electrical snap (magnetic pendulum switch) may be mounted on the rail of the level gauge to be activated at high / low levels. The number of switches is only limited by length of the indication rail and the switches can be mounted on the left and right side of the rail. Mounting the level switches is a very easy task.

#### Magnetic Level Transmitter

The analogue transmitter mounts directly to the side of the level gauge chamber, providing a continuous 4-20mA output signal proportional to the liquid level with an accuracy of  $\pm 3$ mm. Using simple and reliable reed switches surface mounted to a printed circuit board. The transmitter can be equipped with a local indicator to show the level height in a length scale or indicate the percentage of the total height or the tank volume.



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### ORDERING INFORMATION

#### BASIC MODEL

TMLI

#### WETTED PARTS

SS = Float / Chamber / Process Connection - AISI 316 SS  
 SL = Float / Chamber / Process Connection - AISI 316L SS

#### TEMPERATURE RANGE

T1 = -20°C ~ 120°C                      T2 = -20°C ~ 400°C (With Cooling Fins)

#### PRESSURE RANGE

P1 = 0 ~ 10 Kg/cm<sup>2</sup>                      P2 = 0 ~ 25 Kg/cm<sup>2</sup>                      P3 = 0 ~ 50 Kg/cm<sup>2</sup>

#### VENT

V1 = SCREWED CAP + PLUG - 1/2" NPT (M)	V7 = WELDED FLAT TOP + PLUG - 1/2" NPT (M)
V2 = SCREWED CAP + PLUG - 3/4" NPT (M)	V8 = WELDED FLAT TOP + PLUG - 3/4" NPT (M)
V3 = SCREWED CAP + PLUG - 1" NPT (M)	V9 = WELDED FLAT TOP + PLUG - 1" NPT (M)
V4 = SCREWED CAP + VALVE - 1/2" NPT (F)	V10 = WELDED FLAT TOP + VALVE - 1/2" NPT (F)
V5 = SCREWED CAP + VALVE - 3/4" NPT (F)	V11 = WELDED FLAT TOP + VALVE - 3/4" NPT (F)
V6 = SINGLE FLANGED (FOR TOP MOUNTED)	XX = NON STANDARD

#### PROCESS CONNECTION

Screwed Connections		Flanged Connections (As per ANSI B 16.5)		
5NM = 1/2" NPT (M)	5BM = 1/2" BSP (M)	F501 = 1/2" 150# RF	F101 = 1" 150# RF	F201 = 2" 150# RF
5NF = 1/2" NPT (F)	5BF = 1/2" BSP (F)	F503 = 1/2" 300# RF	F103 = 1" 300# RF	F203 = 2" 300# RF
7NM = 3/4" NPT (M)	7BM = 3/4" BSP (M)	F506 = 1/2" 600# RF	F106 = 1" 600# RF	F206 = 2" 600# RF
7NF = 3/4" NPT (F)	7BF = 3/4" BSP (F)	F751 = 3/4" 150# RF	F151 = 1 1/2" 150# RF	F301 = 3" 150# RF
1NM = 1" NPT (M)	1BM = 1" BSP (M)	F753 = 3/4" 300# RF	F153 = 1 1/2" 300# RF	F303 = 3" 300# RF
1NF = 1" NPT (F)	1BF = 1" BSP (F)	F756 = 3/4" 600# RF	F156 = 1 1/2" 600# RF	F306 = 3" 600# RF
Note : Screwed Connections is applicable for SIDE MOUNTING only.		XXX = NON STANDARD		

#### CENTER TO CENTER DISTANCE

Please specify in mm (e.g. Write 500 for 500 mm Center to Center Distance)  
 (This indicator will be supplied up to 3500 mm in single piece design and above 3500 mm, it will be supplied in two piece coupled design)

#### MATERIAL OF SCALE

AL = Aluminum (Standard)                      4S = AISI 304 SS

#### FLAG COLOR

BW = BLUE & WHITE                      RW = RED & WHITE                      KW = BLACK & WHITE

#### MAGNETIC SWITCHES (OPTIONAL)

1 = ONE                      2 = TWO                      3 = THREE

#### SWITCH HOUSING (OPTIONAL)

1 SPST (REED SWITCH, IN GENERAL PURPOSE HOUSING)  
 2 SPDT (MICRO SWITCH, IN IP65 HOUSING)  
 3 SPDT (MICRO SWITCH, IN EX-PROOF HOUSING)

**Ordering Example :** TMLI -            m -

Note : Modifications may take place and materials specified may be replaced by others without prior notice.



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