TL/E

LEVEL ELECTRICAL CHARACTERISTICS

The visual level gauges TL series allow the liquid level to be checked in a clear and precise way at any time.

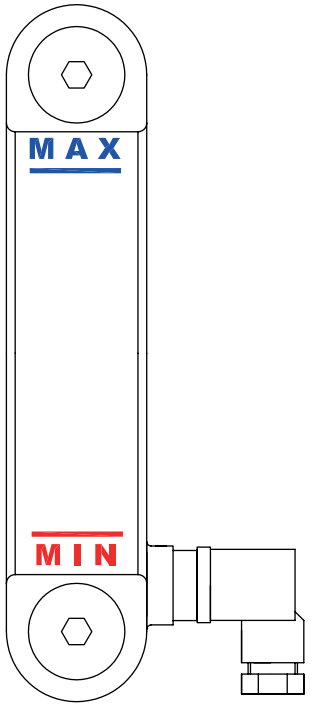
PRINCIPLE OF OPERATION:
The principle used is that of communicating vessels: the liquid goes through the level gauge by means of hollow screws, showing the user the exact point inside the tank.

OPTIONS:
- C/C distance 76, 127, 254 mm interchangeable with almost every level visual marketing
- Body Transparent polyamide based TR 55 LX (Grilamid™) or polycarbonate.

CHEMICAL RESISTANCE:
The polymer used is a compound based on polyamide 12.
It 'compatible with water, oils (including brake), petrol and diesel (from distributor), etc..
Not compatible with concentrated acids.

The **Top Level** electric visual level gauge offers visual signalling as well as a **minimum level electric signal** which can be N.O. or N.C. or EXCHANGE.

The many advantages include:
- just one purchase
- just one installation
- savings in costs and work
- total safety: the electrical part is completely separate from the liquid and insulated with respect to the outside.



ELECTRICAL CONTACT	NO IN PRESENCE	NC IN PRESENCE	EXCHANGE
	STANDARD	ON REQUEST	ON REQUEST
ELECTRICAL CHARACTERISTICS			
POWER COMMUTABLE IN DC	40 W	20 W	20 W
POWER COMMUTABLE IN AC	40 V.A.	20 V.A.	20 V.A.
CURRENT STRENGTH IN DC - AC	2 A.	1 A.	1 A.
COMMUTABLE VOLTAGE	230 VDC / VAC	150 VDC / VAC	150 VDC / VAC
TEMPERATURE RANGE	- 20°C + 80°C		

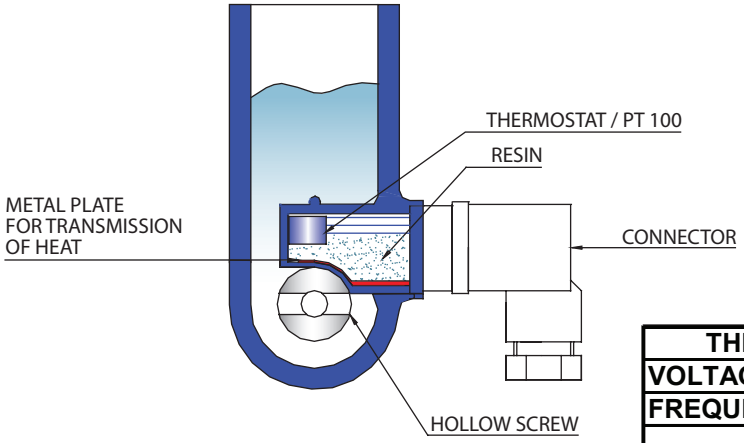
TL/T-TL/P

CHARACTERISTICS OF LEVEL GAUGE WITH THERMOSTAT / PT 100

In addition to the electric level gauge, the Top Level can provide temperature signalling by means of a PT 100 (-50°C +150°C) or the insertion of a preset thermostat.

To facilitate the passage of heat, from the tank through the hollow screw to the thermostat / PT 100, a metal plate is inserted inside the level gauge to conduct the heat of the liquid faster and with less dissipation.

In conjunction with the thermostat / PT 100, a cap is fitted standard on the bottom screw to prevent heat loss to the outside.
Complete resin coating in the cavity containing the thermostat provides better heat and electrical insulation safety.



THERMOSTAT ELECTRICAL CHARACTERISTICS	
VOLTAGE	250 V. COMMUTABLE
FREQUENCY	50 Hz
LOAD VALUES	4,0 A. cos φ = 0,6 (I M OT) 6,3 A. cos φ = 1,0 (I N)
MAX. LOAD	10 A. cos φ = 1
COMMUTATING TEMPERATURE	50°C - 60°C - 70°C - 80°C
CONTACTS	N.CH. = NORMALLY CLOSED N.A. = NORMALLY OPEN
TOLERANCES	± 5°C

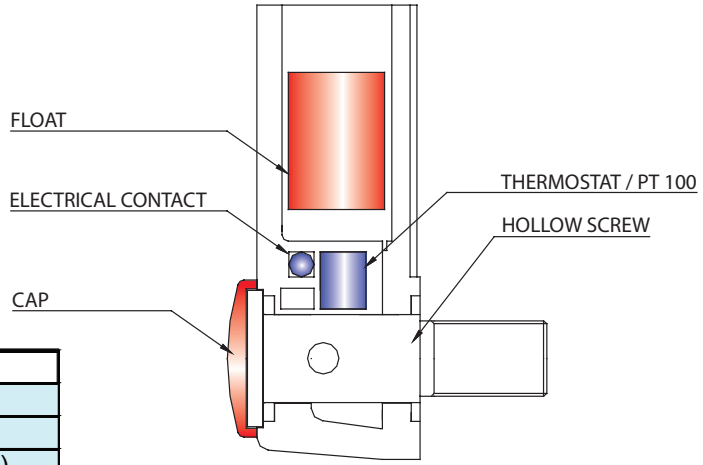
TL/TE-TL/PE

CHARACTERISTICS OF ELECTRIC LEVEL GAUGE WITH THERMOSTAT / PT 100

In addition to the already mentioned qualities of the TOP LEVEL, there is also the possibility of having a minimum electric signal together with the temperature signal of a thermostat or a PT 100, all in a single level gauge, and on a single connector.

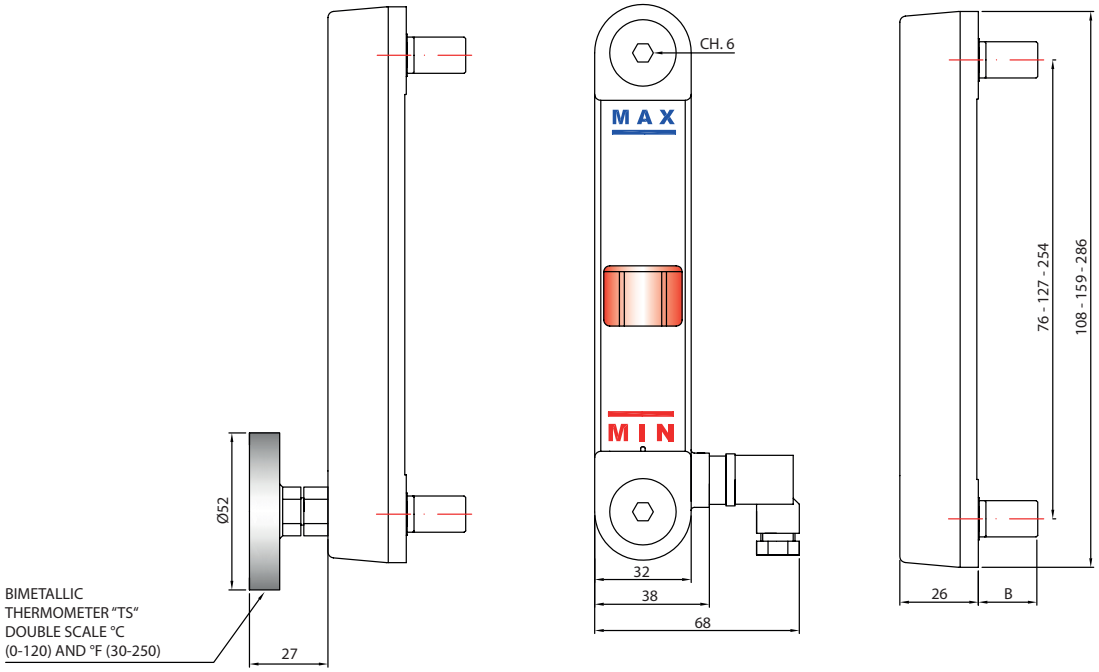
The possibilities for use and saving are many, thanks to
- a visual indication
- an electric indication and
- a temperature indication ...

.... ALL IN A SINGLE LEVEL GAUGE



TL/E-TL/T-TL/P-TL/TE-TL/PE

SCHEME OF ORDER



MOD.	LEVEL CHARACTERISTICS		C/C DISTANCE	SCREWS MATERIAL		B (mm)	ELECTRICAL CONTACT IN ABSENCE OF LIQUID		COVER		THERMOSTAT CHARACTERISTICS		BODY MATERIAL		TEMP. (°C)	OR MATERIAL		TEMP. (°C)	DEVICES			
																			THERMOMETER		LOCKNUT	
TL	E	ELECTRICAL	76	A	NICKEL PLATED BRASS M10 (ONLY FOR E)	16	0	WITHOUT CONTACT (ONLY P -T)	A	YES	0	WITHOUT THERMOSTAT (ONLY E-P-PE)	A	TR 55 LX	-70...+80	1	NBR	-30…+100	0	WITHOUT	S	WITHOUT
	T	BIMETALLIC THERMOMETER									1	50°N.O.				2	FKM (VITON)	-25…+200				
	TE	THERMOSTAT+ELECTRICAL	127	B	NICKEL PLATED BRASS M12	16	1	OPEN			2	60°N.O.				3	SI (SILICONE)	-60...+200	R1	WITH LOWER BIMETALLIC THERMOMETER (WITH NICKEL PLATED BRASS SCREW M12)	1	WITH TWO M10 GALVANIZED LOCKNUT
	P	PT100		C	AISI 316 S/STEEL M10	16	2	CLOSED	B	NO	3	70°N.O.				4	HNBR	-40...+130				
	PE	PT100 + ELECTRICAL	254	D	AISI 316 S/STEEL M12	16	3	SPDT			4	80°N.O.				5	EPDM	-45...+155				
											5	50°N.C.	B	POLICARBONATO	-150…+130	6	FEP (FKM-SILICONE)	-60...+205			2	WITH TWO M12 GALVANIZED LOCKNUT
											6	60°N.C.				7	MFQ (FLUOROSILICONE)	-65...+175				
											7	70°N.C.				3, 4, 5, 6 e 7 ON REQUEST FOR QUANTITIES						
											8	80°N.C.										
TL	TE		127	D			1		B		3		A			1			R1		S	