

## “TLT” SERIES LEVEL TRANSMITTER

The “TLT” series level transmitter is used to measure the level of fluids that are found in storage or process tanks.

The fluid shall neither be adhesive nor feature high viscosity. The standard version fits fluids up to 0.6 kg/dm<sup>3</sup>, with pressure values up to 50 bar and temperature values between -40° C and +85° C.

The instrument can also be used for interface service (measurement between two fluids that cannot be mixed).

The instrument allows for remote transmission of the measured level, through a linear 4/20 mA signal that is also proportional to its gauge.

It is made of a chain of resistances and reed contacts, inserted in an a-magnetic tube (AISI 316L) and connected to a converter located inside the rod to close. Being connected to the chain of resistances, they entail a change in the total resistive value of the chain.

Hence, the level changes into a change in resistance that is then converted from an electronic circuit into a 4/20 mA linear signal that is proportional to the field of the level indicator.

### TECHNICAL FEATURES

#### General

Fluid : Liquid  $\geq 0,6$  kg/dm<sup>3</sup>  
 Process temp. : -40°C ÷ +85°C  
 Pressure :  $\leq 50$  bar  
 Field : 0.3m ÷ 4m  
 Accuracy :  $\pm 10$  mm  
 Ambient temp. : -40°C ÷ +85°C

#### Material

Housing : Aluminium, epoxy painted  
 Connection : AISI 316L  
 Rod : AISI 316L  
 Float : AISI 316L

#### Transmitter

Output : 4/20 mA (2filii)  
 Power supply : 10...32 Vdc (28Vdc max for Exia)  
 Max. current : 25 mA  
 Max. load : (V - 8)/0.023  $\Omega$

#### Connections “C” (other sizes on request)

Flanged : 3” - 4” ANSI 150 / DN80-100 PN16  
 Flanged : 3” GAS M

#### Housing

Protection : IP65  
 Connection : 1/2” GAS/F



Characteristics of the FLOATS		
measures	Pmax bar	P. S. min kg/dm <sup>3</sup>
ø 76x140	32	0.8
ø 94x180	20	0.6
ø 94x140	50	0.7
Other version on demand		

Programmable zero setting and full-scale through a PC with a special software, the values required during the order stage are factory-set, the programme can be provided (if demanded).  
Version suitable for use in environments featuring explosion risk through Exia IIC T1...T6 certified probe available in compliance in with the ATEX 94/9/EC directive.

It is also available with a HART® protocol that can also be used in environments featuring explosion hazards. On demand, a version equipped with local or remote indicator (LCD) is available, always featuring a two-wire technology also for hazardous areas.

#### MATERIALS USED

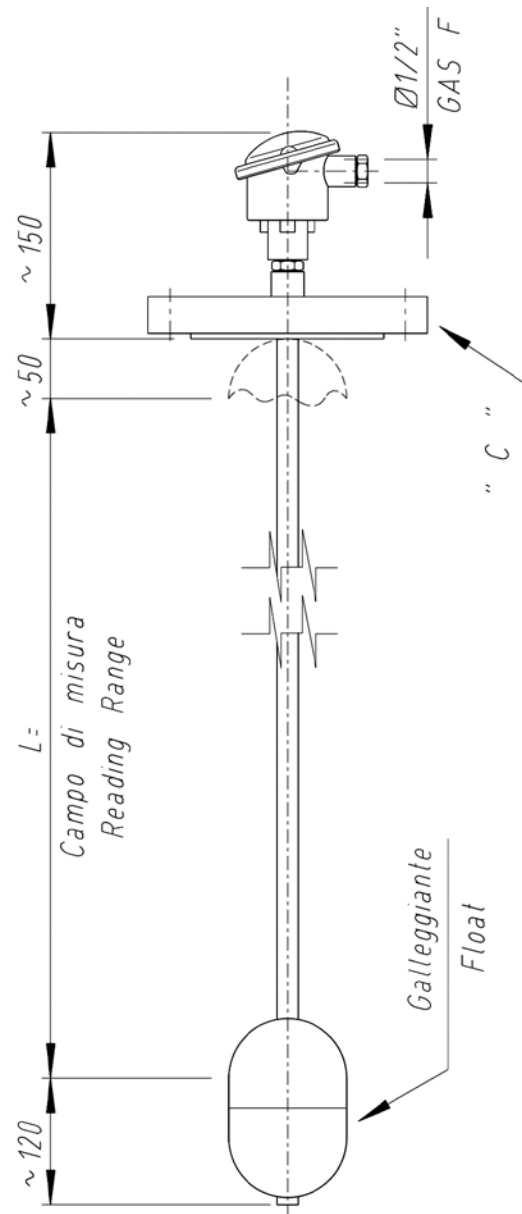
MATERIALS		AISI 316L
SUFFIX	CONNECTION	JL
	ROD	2L
	FLOAT	

#### FLOAT

SUFFIX	Ø 76X140	1
	Ø 94X180	2
	Ø 94X140	3

#### TRANSMITTER

SUFFIX	Standard	N
	Exia IIC T6	EX
	Hart®	HR
	Hart® Exia IIC T6	HX



#### HOW TO ORDER

Example: TLT - 1500 - JL - 2L - 1 - N

TLT	Series
1500	Measuring range
JL	AISI 316L connection
2L	AISI 316L float
1	float ø76x140
N	Std. transmitter