ACCESSORIES FOR THE CONTROL PANELS TYPES 1QM/CE, 1QT/CE, 1QMD/CE, 1QTD/CE, Q2PM/CE, Q2PT/CE, Q2PMD/CE, Q3PTD/CE Q3PM/CE, Q3PT/CE, Q3PMD/CE, Q3PTD/CE, SLC/M, SLC/T, SLC/C/M, SLC/C/T, SLC1/M AND SLC1/T

LEVEL TRANSDUCERS FOR CONTROL PANELS TYPE SLC, SLC/C,SLC1 AND SLC1/C

TYPE TDL1   CODE 700610 till 700613

The level transducer type TDL1 includes a tablet fixed on the inside of strong brass covering which allows us, to read the level of the liquid through the deformation of the tablet. This system is of the capacitive type, therefore it is very reliable, can be repeated many times and is not affected by temperature and climatic changes and is accurate to ±, 1%. The transducer is supplied in two versions; the first is a surface type and the second a submergible type. Both come with connector and 2mt cables. If required it is possible to supply both types of transducers with a maximum cable length of 50mt. Please specify which type of application is required when ordering.

TECHNICAL DATA OF THE LEVEL TRANSDUCER TYPE TDL1 (**NOT SUITABLE FOR FOODSTUFFS, PETROL OR HIGHLY INFLAMMABLE LIQUIDS**) IT CAN BE USED ALL OTHER TYPES OF LIQUID WITH A DENSITY BETWEEN 0.000-2.000 y.

TRANSDUCER TYPE	TDL1 0,2 BAR cod.700610	TDL1 0,35 BAR cod.700611	TDL1 0,75 BAR cod.700612	TDL1 1,00 BAR cod.700613
TENSION FEED	+5V	+5V	+5V	+5V
TENSION OUTPUT	+0,5V – +4,5V	+0,5V – +4,5V	+0,5V – +4,5V	+0,5V – +4,5V
CONNECTION	1" GAS	1" GAS	1" GAS	1" GAS
ASSEMBLY	Vertical./Horizontal	Vertical./Horizontal	Vertical./Horizontal	Vertical./Horizontal
LINEARITY	±0,2%	±0,2%	±0,2%	±0,2%
OPERATING TEMPERATURE	-20°C + 50°C	-20°C + 50°C	-20°C + 50°C	-20°C + 40°C
STABILITY	0,25% max	0,25% max	0,25% max	0,25% max
TYPICAL TOTAL MARGIN OF ERROR	±1%	±1%	±1%	±1%
WORKING LIFE OF THE TRANSDUCER	10 Milion full loads	10 Milion full loads	10 Milion full loads	10 Milion full loads
WORKING PRESSURE	0,2 bar (2mt)	0,35 bar (3,5mt)	0,75 bar (7,5mt)	1 bar (10mt)
OVERPRESSURE	1 bar	1,3 bar	2 bar	3 bar
SENSOR MATERIAL	Ceramics AI2O3	Ceramics AI2O3	Ceramics AI2O3	Ceramics AI2O3
TRANSDUCER MATERIAL.	BRASS	BRASS	BRASS	BRASS

MANIPULATION OF THE LEVEL TRANSDUCERS TYPE TDL1

- ✓ Move the level transducer with great care, as is it a very **<u>sensitive product and can be easily damaged by being knocked or shaken.</u>**
- ✓ **Fix the level transducer in the sleeve by screwing in. Take care not to create any pressure, so ensure that the shutter is open. An extra pressure of one bar for the 200cm type irreparably damages the transducer with the subsequent breaking of the membrane**
- ✓ Each time that the tank is completely emptied, that is below 10 cm, after re-filling it is important to release the air from the transducer through opening the screw. This is only to be carried out on surface transducers.
- ✓ Do not enter the hole of the transducer with a pointed object and press on the membrane or apply pressure on it.
- ✓ Pressure over one bar will irreparably damage the transducer.
- ✓ Keep away from direct heat
- ✓ Keep away from radio equipment
- ✓ Do not bend the electric cable into a "U" shape
- ✓ Fix the connector from the transducer to electric card, with the cable facing down. The connector is polarised, but in any case the incorrect assembly of the connector irreparably damages the transducer.
- ✓ Do not unscrew the socket-head screw. Opening these causes the transducer to work incorrectly.
- ✓ Ensure that the transducer is fixed at a height of 10cm from the release air screw at the bottom of the tank. Failure to observe this level will causes an incorrect reading of the liquid level.

MANIPULATION OF THE LEVEL TRANSDUCER YPE TPL1

✓ Do not enter the hole of the transducer with a pointed object and press on the membrane or apply pressure on it. Pressure over 25 bars will irreparably damage the transducer.
✓ Keep away from direct heat
✓ Keep away from radio equipment
✓ Do not unscrew the transducer. The opening of this causes damage to the pressure transducer.
Do not bend the electric cable into a "U" shape