

T/LL25X – Calibration Instructions

It is possible to recalibrate the T/LL25x sensor to suit different full heights and fluid types. **No cutting is required- the product is designed to lie flat on the base of the tank.** Standard calibration is for diesel and to the metre length ordered. Please follow the stages below should you wish to recalibrate:

Stage 1 - Calibrating the empty point of the sensor

1. Ensure your power supply is off. Connect the dry sensor to your power supply.
2. Press firmly and hold the 'CAL' button on the top of the sensor, then turn on the power supply.
3. Hold for 10 seconds, then release the 'CAL' button.
4. Your sensor empty fluid point will now be calibrated.

Stage 2 - Calibrating the full point of the sensor

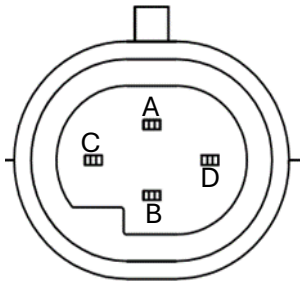
5. Fill your tank to the maximum liquid level required.
6. With the sensor still powered on, insert it into your tank ensuring it is fully submerged at its maximum point in your tank. Please note, the maximum this can be is 50mm below the tank height.
7. Once you are certain the product is fully submerged to your desired level, press and hold the "CAL" button firmly for 10 seconds then release.
8. The sensor is now fully calibrated and should be checked with a suitable gauge or multi-meter whilst the power is on.

*** If not possible to fill tank to full level, use the following calculation to calibrate full point in water as an alternative –the sensor will then be ready for use in your required fluid.**

Calculate:

Water height required to calibrate full point	=	$\frac{\text{Maximum level in desired liquid}}{\text{Specific gravity of desired liquid}}$
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Liquid	Specific gravity
Water (pure)	1.00
Diesel	0.84
Kerosene	0.80
Petrol (unleaded)	0.74

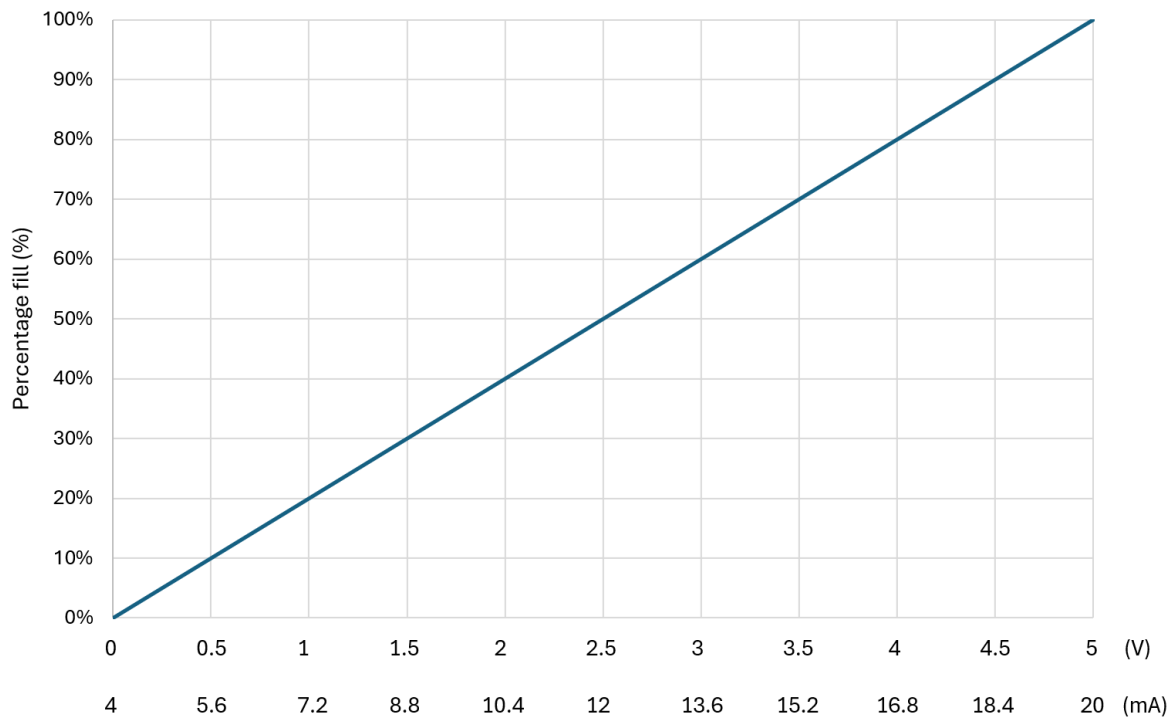


Pin	Connection
A	V- Power Supply (GND)
B	Output Signal / Low Level Alarm
C	Output Signal
D	V+ Power Supply

Output on the T/LL25x is linear, if you do not recalibrate, the below graph can be used to calculate the output signal at your full point.

For example, a 1m* sensor when used in an 800mm max liquid level tank of Diesel will show 4V at full if not recalibrated.

Corresponding output for % fill on pre-calibrated standard T/LL25X



***Please note: T/LL25x length is always supplied 400mm longer than the tank depth to allow it to lie at on the tank base —no cutting is required for shallower tanks.**