



## Insacal® accessories

Accessories for the Insacal and Insacal mk. II conductivity calibrators.

**PHARMA**



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# Insacal®

Our calibration technicians have used the Insacal and Insacal mk. II for years and have helped pick and develop the most useful accessories for both laboratory and field work.

## Additional calibrations

Gain a deeper understanding of the linearity of the sensor with a multi-point comparison calibration. This compliments the standard calibration of the Insacal and Insacal mk. II (Accredited cell-constant calibration using Standard Reference Material (DFM conductivity solution), 6-point accredited temperature calibration and an accredited electrical calibration of the transmitter).

Insatech Calibration Laboratory offers a broad array of accredited calibrations, and the Insacal can therefore be calibrated to your needs.

## Tubes

At very low conductivity measurements many elements can contribute to a higher conductivity, one of these, are the tubes used to pass the calibration solution through the flow-fitting. Tubes vary in quality and heat transfer, both of which can have a big influence on the calibration. Therefore, we highly recommend using our tested and verified tubes, to make sure you get the best possible calibration. The tubes are delivered with mini-clamps in both ends.

**Order number for 1-meter tube:**  
23-07-10SILX-1000.

## Insacal Decade Box

A conductivity loop consists of two equally important parts, the sensor and the transmitter. To ensure you have the best possible conductivity measurement you need to check your transmitter, as well as the sensor. With our decade box you can check your transmitter in multiple points.

## Insacal mk. II Flow-Temperature Unit

The Flow-Temperature (FT) unit helps determine if the, calibration is done at the right flow and temperature conditions. If you use the Insacal at-line the calibration is done using the process solution. However, if the flow is not high enough from the process line to the Insacal, the solution might lose heat, which will affect the conductivity. When used with the tubes provided by Insatech, the FT unit can give you an indication of how reliable the calibration is. This is done through an algorithm based on flow and media temperature.

## Transportation and storage case

Keep your Insacal safe during transport or storage with a custom fit Pelican case. The case interior is fitted with custom tailored foam. The case also has wheels, which makes transporting your Insacal very easy.





# T9 Calibration Tank

The Insacal T9 Calibration Tank is the perfect companion for your Insacal or Insacal mk. II master meter.

## T9 Calibration Tank

The T9 Calibration Tank with built-in circulation pump, makes it easy to perform conductivity calibrations. The tank can contain up to 9 liters of calibration solution and is produced in electro-polished stainless steel. Furthermore, the lid helps minimize the impact from CO<sub>2</sub>. The calibration solution could consist of pure water from your own production, and if you want to perform a multi-point calibration, you can just add saline solution.

It is possible to mount several sensors in the T9 and by circulating the solution through the flow-fitting on the Insacal, it is very easy to do multiple calibrations. With the circulation and controlled environment several sources of error are eliminated.

The standard T9 comes with a 1½", 2" and 2½" clamp connection, but they can be changed to fit your needs. T9 is delivered with 2 × 1 m tubes with mini-clamps. The tubes are specifically picked because they do not influence the calibration, even when done at the lowest conductivity ranges.

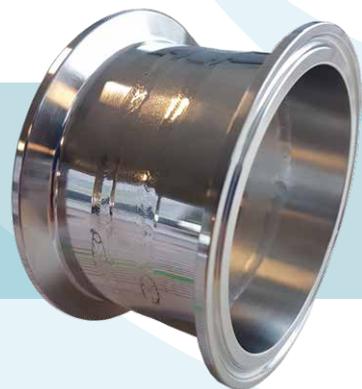
**Order number for the standard T9 Calibration Tank:** T9-133100.

## T9 Resin Bed

The T9 Resin Bed is designed for the T9 Calibration Tank and will make calibrating sensors in Ultra-Pure Water (0.055 µS/cm @ 25 °C) very simple. Between the tank's ability to minimize impacts from the surroundings and the resin bed's ability to treat the calibration solution, it is possible to perform conductivity calibrations at the very critical point of WFI/UPW.

## T9 fittings

If the standard fittings are not sufficient we can supply special fittings on request for example fittings that allow you to connect long sensors (e.g. the long shaft version of the Yokogawa ISC40G/S) as well as for a variety of process connections.







*The Insatech Insacals ensure fast and reliable calibration of high and low conductivity sensors.*

## PHARMA

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