



## ISC40G(S) with External Temperature Sensor

Insatech has designed a termowell solution for the ISC40G(S) conductivity sensor.

# XT4ISC40

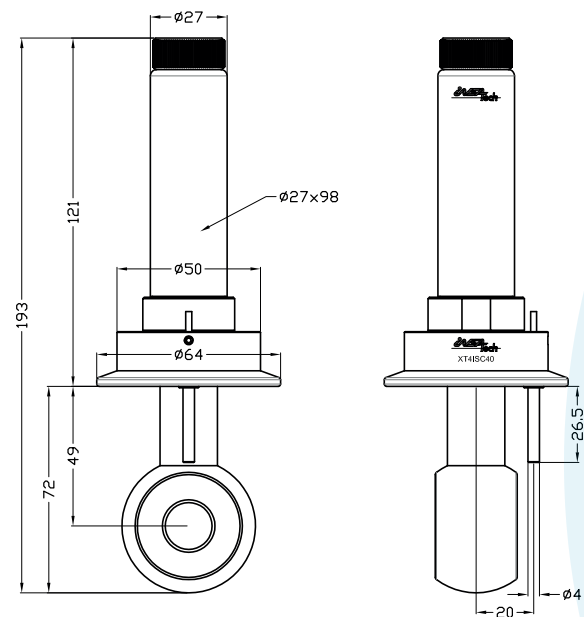
## External Temperature Sensor

To get a more stable and faster reacting temperature reading, Insatech has designed a small solution with a termowell welded to the clamp. This ensures that the temperature sensor is placed close to the conductivity measurement without influencing the measurement.

### Why use an external temperature sensor?

Inductive conductivity is designed to measure conductivity in higher conductivity ranges. Because of this, the body of the sensor is cast in PEEK material, but this has an adverse effect on the internal temperature element that will experience a measurement delay. In application where temperature is changing rapidly it's ideal to have an external temperature sensor. Using conductivity measurement as an indication of concentration is highly dependent of a good and fast reacting temperature measurement. By using an external temperature sensor you get:

- Fast reacting temperature reading
- Optimal temperature compensation
- Ease of use during temperature calibration
- Optimized concentration calculation



Model code	Suffix	Option	Description
XT4ISC40			Clamp connection with external temperature sensor for Yokogawa inductive conductivity sensor type ISC40G(S). Ra<0,8 on clamp and temperature well Temperature element: PT1000 Class A.
Mounting on loop	-N -E -FC* -FCE*		Complete set (Clamp+shaft holder) for pipe or tank mounting Only Clamp part (without shaft holder) for pipe or tank mounting Complete set (Clamp+shaft holder) for mounting in flow fitting FC4ISC40 Only Clamp part (without shaft holder) for mounting in flow fitting FC4ISC40
Temperature	5		5 meter cable on temperature element
Clamp size	-2 -2.5 -3		2" clamp (outer diameter clamp 64mm) 2½" clamp (outer diameter clamp 77.5mm) 3" clamp (outer diameter clamp 91mm)
Material	-S		SS 316L 1.4435
O-ring	-E		EPDM, FDA compliant
Certificate	/3.1		3.1 material certificate

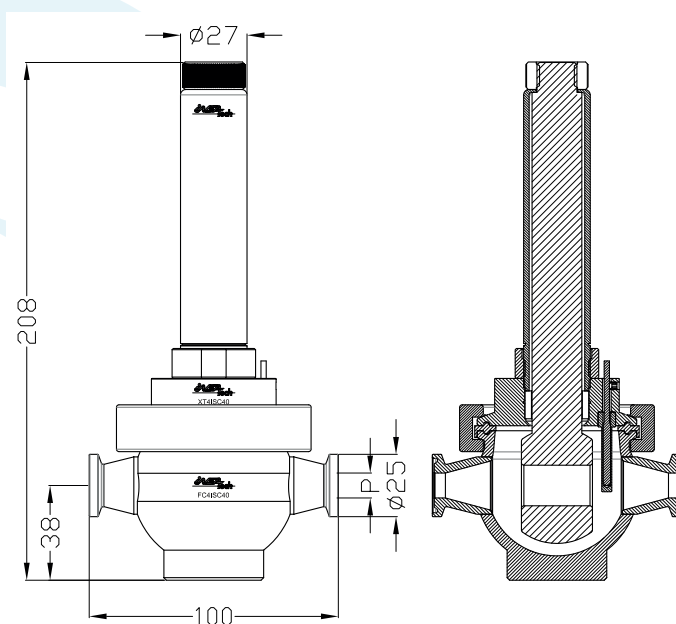
\*FC and FCE are only compatible with 2" clamp size

# FC4ISC40

## Flow Fitting for Yokogawa ISC40G(S)

### Special flow fitting for small pipes

In applications where there is a need to measure a high conductivity in small pipes, it can be problematic to install an inductive conductivity sensor due to lack of space. This is why Insatech A/S has designed a special flow fitting, which ensures that the sensor can be connected to small diameter pipes. This flow fitting is mounted vertically and is self draining. The fitting can be used in combination with the special clamp with external temperature sensor. The inductive sensor has to be calibrated in the flow fitting to ensure correct conductivity readings.



Model code	Suffix	Option	Description
FC4ISC40			Flowfitting for Yokogawa ISC40G(S) inductive conductivity sensor. Minimized dead volume vertical mounting. Sensor: ISC40G(S)-GS/STC1/SFT/XT4ISC40 Surface Roughness: Ra<0,8
Clamp size	-P4 -P6 -P8 -P10 -P12 -P14 -P16		DN6 (hole Ø4mm) DN8 (hole Ø6mm) DN10 (hole Ø8mm) DN12 (hole Ø10mm) DN14 (hole Ø12mm) DN16 (hole Ø14mm) DN18 (hole Ø16mm)
Material		-S	SS 316L 1.4435
Certificate		/3.1	3.1 material certificate



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