

Inmec COS

Concentration Transmitter

Inmec COS is a microwave concentration transmitter for measuring suspended and dissolved solids in food, beverage, mining and chemical industry processes.

Providing a linear correlation to laboratory methods, the accurate and continuous measurement can be used for both quality monitoring and process control.

Wide measuring range

Using a new and unique multivariable measuring algorithm, several variables are combined to determine dry matter content for a broad range of concentrations over a wide temperature range.

The flow through sensor measurement takes place across the pipe. The In-Line version installs into a vessel through a standard flange. Both sensor models provide highly representative results and sensor signal is linear throughout the broad measuring range.

COS Transmitter comes as standalone sensor with 4-20 mA concentration output or with a central unit featuring additional options.

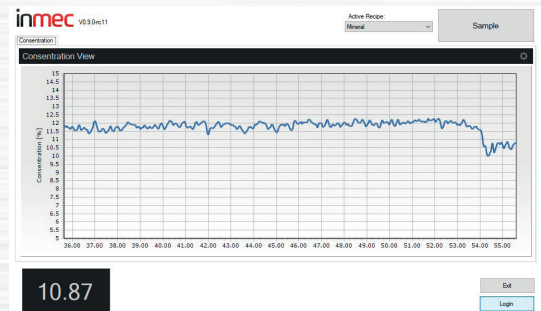
Central Unit with touchscreen

Recipe based utility software provides Multiple, simultaneous calibrations. Factory calibration for various materials facilitates rapid start-up.

Sensor features exceptional reliability to stand demanding process conditions. The S Model can be equipped with installation kit for thread, flange or clamp mountings providing uncomplicated installations.



Model IL
for In-line installations

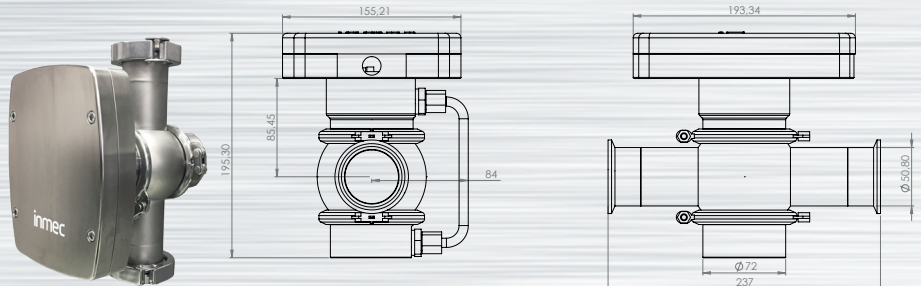


- Trending and data logging
- Remote access
- Easy calibration routines

Sensor models

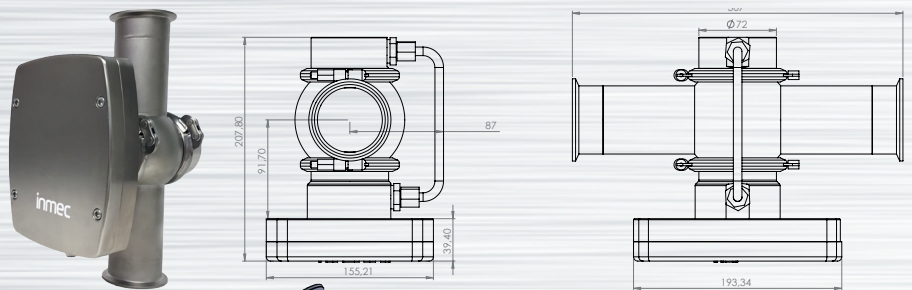
Model G 2

- Sensor body: Varinline 2"-1.4404
- Process connection: Socket Tri Clamp
- Hygienic applications



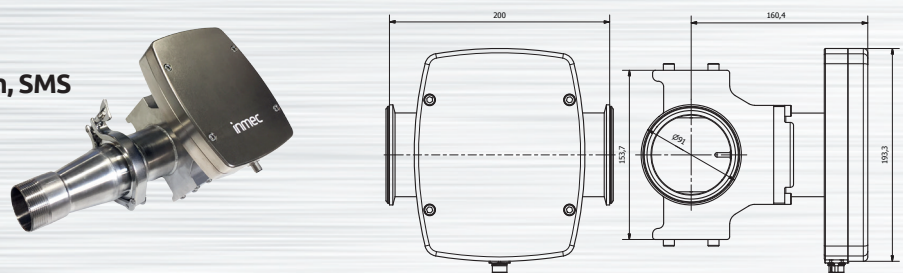
Model G 2.5

- Sensor body: Varinline 2.5"-1.4404
- Process connection: Socket Tri Clamp
- Hygienic Applications



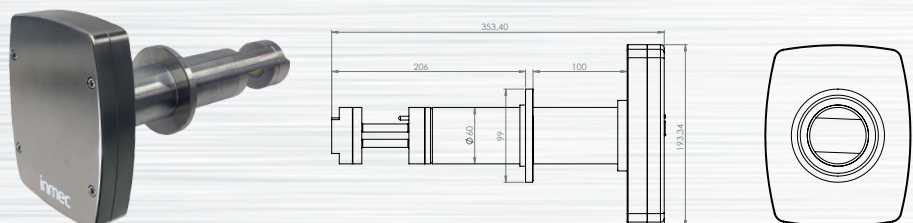
Model S

- Process connection: Clamp 76 mm, SMS
- Rugged sensor design
- Insulated against process heat
- Optional thread and flange installation kits



Model IL

- In-Line model for vessel wall Installation, Coupling L
- Process insertion 206 mm
- Insulated against process heat



Measurement

Operating power	Sensor 24V, 2 Amps
Microwave power	15 mW
Connection	Cable to Sensor Central unit
Measuring range	0-90%
Repeatability	+/- 0.01 % concentration
Sensitivity	+/-0.001% concentration
Filtering	1 – 300s
Output	4 – 20 mA

Process conditions

pH range	3 – 11
Temperature	0 – 100 °C
Pressure	
Minimum	Recommended min 1.5 bar to avoid free air
Conductivity	13mS/cm

Vibration

max. 20 m/s² 10-2000Hz

Environment

Temperature

0 – +70 C

Protection needed in case of direct heat source
IP65

Housing

Materials

G models
Housing Parts
GA type
GS type

Measuring body, Hygienic Aisi 316L

Aluminum, Nickel coating 25 micrometers
Aisi 316L

S Models

Sensor weights

Model
GA2
GA2.5
S
IL

MSensor body, Aisi 316L

Weight
2.8 kg
3.0 kg
3.2 kg
3.4 kg