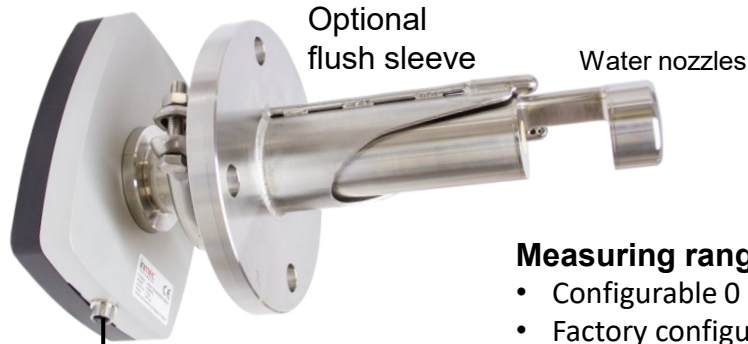


Digital electronics
 All integrated



Measuring range:

- Configurable 0 - 95 °Bx
- Factory configured

Display unit

Brix &
 Temp 4 – 20 mA

Sensor power 24 VDC



Tablet cable

Tablet

- Windows 11
- In-built Cellular
- All tuning functions
- Manages all sensors of a mill

Power input, 24 VDC , 3 A

Brix, 4–20 mA (Active)

Temp. 4–20 mA, (Active)

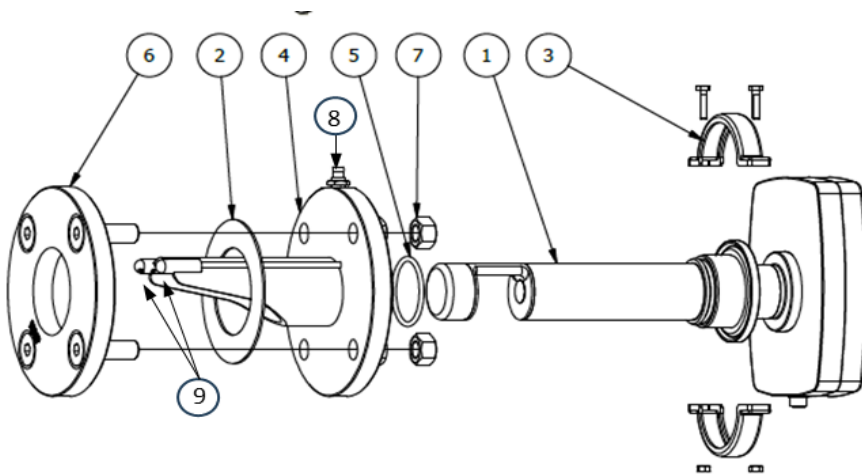
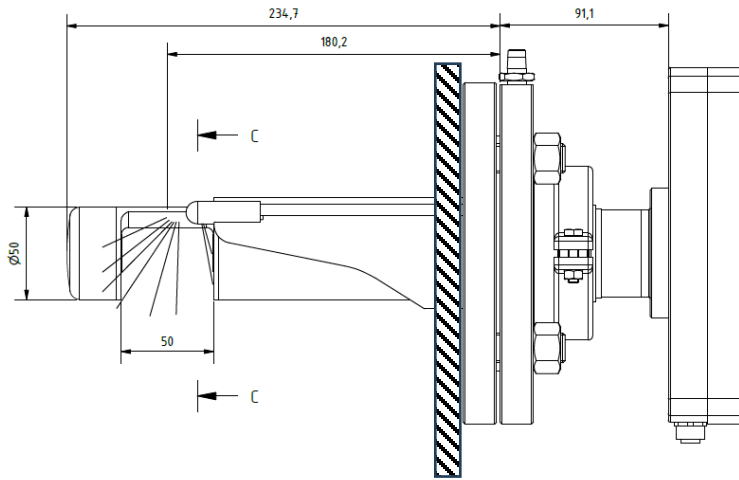
Display Unit features

- Numeric Brix Display
- Tablet cable connector
- Sensor cable connections
- Mill connections
 - 24VDC,3A Power
 - 4-20mA outputs, Active;
 - Max load 750 Ohm

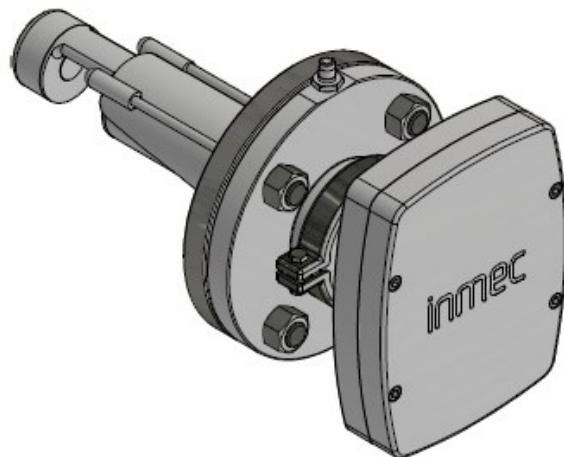
MAIN POWER and I/O - Connections	
X1	
13 +	+ 24 VDC
13 +	
14 -	GND
14 -	
15 +	4-20 mA output Active, BRIX
16 -	4-20 mA output Active, BRIX
17 +	4-20 mA output Active, TEMP
18 -	4-20 mA output Active, TEMP
19	Option
20	Option

Model IL 50 Brix sensor is designed for applications like Continuous Vacuum Pans where masequite tends to jam up around the sensor probe
Flush unit utilized pressured water sprayed periodically to the sensor antennas to clear jam ups

Sensor with Flush Unit in tank wall



- 1. Model IL50 Sensor
- 2. Flange gasket
- 3. Bolt clamp
- 4. Flush Unit, DN65
- 5. O-ring
- 6. Process side flange, By customer
- 7. Nuts
- 8. Water Inlet Nozzle, 3/8"
- 9. Sensor spray nozzles



Sensor specifications Inmec Model IL/50, In-Line sensor

Measurement	Digital microwave signal formation and processing
Operating power	24VDC, 3 Amps, Continuous 2 Amps
Microwave power	15 mW
Connection	Cable to Connection unit, 8 wire shielded. Connectors Aisi316L
Process connection	Quick coupling, Union-L weld ring and Clamp 76.1 * 2.9 mm
Gasket	O-ring, EPDM / Viton
Flush adapter	-Flange DN65/ PN10, Twin antenna spay, 3/8" Water inlet nozzle
Measuring range	Configurable to 0 – 95 °Bx
Repeatability	+/- 0.01 % concentration
Sensitivity	+/-0.001% concentration
Measuring resolution	0.01% concentration
Output filtering	1 – 300s
Output 1	Brix output. 4 – 20 mA, Active and Isolated. Max load 750 Ohm
Output 2	Temperature output. 4 – 20 mA, Active and Isolated. Max load 750 Ohm
	Alternative: Line Run, Digital Input, 24VDC
Signal processor	DSP
Process conditions	
pH range	3 – 14
Temperature	0 – 140 C
Pressure	
Minimum	Recommended min 2 bar to avoid free air
Maximum	PN10 ,
Conductivity	Max. 13mS/cm
Flushing	Optional
Environment	
Temperature	0 – +70 ; Protection needed in case of direct heat source
Housing	IP65
Vibration	max. 20 m/s ² 10-2000Hz
Materials	
Model IL	Sensor body, Aisi 316L. Installation weld ring Aisi 316L
Housing Parts	Aluminum, Anonized
Antennas	Ceramic
Sensor weight	3.1 kg

Display Unit specifications

Operating power	24VDC, 3 A
Connection	Cable to sensor, 10m, 8 wire shielded. Connectors Aisi316L
Environment	
Temperature	0 – +70
Housing	IP65
Material	ABS Plastic
Unit weight	1 kg
Dimensions	230*130*100 mm
Wall mount	4 bolts, Corner loops

Features:

- Numeric display of Brix, Density or %-Concentration
- I/O connections
- 24VDC, 3A power supply for the sensor
- 2 * 4 -20mA outputs forwarded from the sensor, Active and Isolated, Max. load 750 Ohm
- Alternative to second 4-20mA output: Line Run, Digital Input, 24VDC
- Optional Router for remote access
- Connection to the Operating Tablet, USB-A