G2 Flow Through Sensor for 2” pipelines

Measuring range:

- 0-95%, or as high as material can be pumped
- For wide range Brix measuring applications

Quick coupling clamps

Single cable
Length 10m
Connector ended

Display Unit

Tablet

2 * 4 – 20 mA →

← Sensor power 24VDC
← Line run, Digital input

Single sensor cable
Length 10m, Connector ended

Power input, 24 VDC , 3 A

Brix 4–20 mA, (Active)

Temp. 4–20 mA, (Active)

RS 485 serial link to Gateway unit

Installation Parts

Weld rings
Tri-Clamp

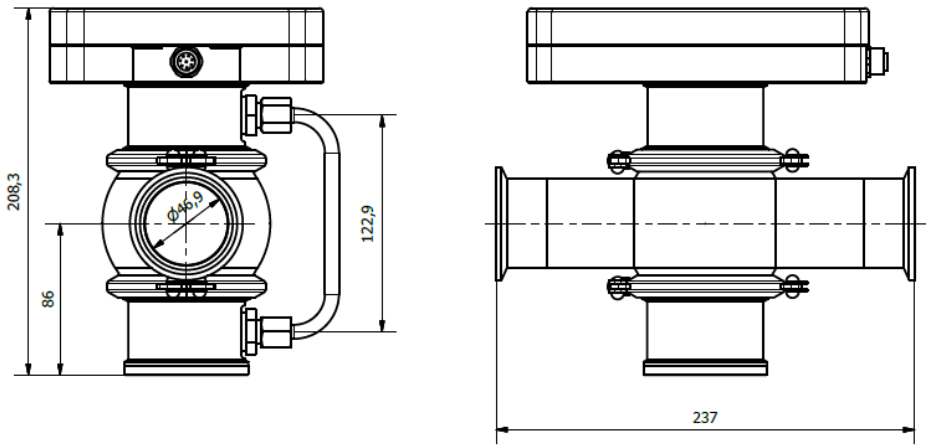
Gaskets
EPDM
PTFE Optional

Clamps

Tablet

- Windows 10
- Touch screen 10”
- In-build GSM-Cellular
- All sensor tuning functions
- Manages all sensors of a mill

Sensor ModelG2 SRC dimensions, mm



Display Unit connections

Power and I/O CONNECTIONS

X1

11	+	**24 VDC Main Power**	To fuse
12	-	**24 VDC Main Power**	Blue
13	+	24 VDC to sensor	Red
14	+	Brix, 4-20 mA output Active	Pink
15	-	Brix, 4-20 mA output Active	Grey
16	+	Temp, 4-20 mA output Active	Green
17	-	Temp, 4-20 mA output Active	Yellow
18		4-20 mA via display to X1;16	Grey

Tablet and Remote CONNECTIONS

X2

21	-	Rs-485 Remote (Gateway)	
22	-	RS-485 Local (Tablet)	Brown
23	+	Rs-485 Remote (Gateway)	
24	+	RS-485 Local (Tablet)	White

Tablet cable

Display Unit features

- Numeric Brix Display
- Tablet cable connector
- Sensor cable connections
- Mill connections
  - 24VDC,3A Power
  - 2 * 4-20mA outputs, Active; Max load 750 Ohm
  - Digital Input, 24VDC for Line Run signal

Tablet

- Windows 10
- Touch screen 10”
- In-build Cellular
- All sensor tuning functions
- Manages all sensors of a mill

Dimensions

230*130*100 mm

Sensor specifications Inmec Model G2, Flow Through sensor

Measurement	
Operating power	24VDC, 3 Amps, Continuous 2 Amps
Microwave power	15 mW
Connection	Cable to Connection unit, 12wire shielded. Connectors Aisi316L
Process connection	Socket Tri-Clamp, 2”
Gasket	EPDM, PTFE As an option
Measuring range	0-95%, or as high as material can be pumped
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
Digital Input	24VDC for Line Run signal
Signal processor	DSP
Process conditions	
pH range	3 – 11
Temperature	0 – 140 C
Pressure	
Minimum	Recommended min 1.5 bar to avoid free air
Maximum	PN10 ,
Conductivity	Max. 13mS/cm
Certified	EHEDG Hygienic design
Environment	
Temperature	0 – +70
Housing	IP65
Vibration	max. 20 m/s2 10-2000Hz
Materials	
Model SRC	Model G2 Sensor body, Aisi 316L
Housing Parts	Aluminum, Anonized
Antennas	Ceramic
Sensor weight	3.2 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
- Digital Input 24VDC for Line Run signal
- RS 485 serial link to external Gateway unit
- Connection to the Operating Tablet, USB-A