



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

2 * 4 – 20 mA →

← Sensor power 24VDC
 ← Line run, Digital input

Single sensor cable
 Length 10m, Connector ended



Display Unit

Tablet



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



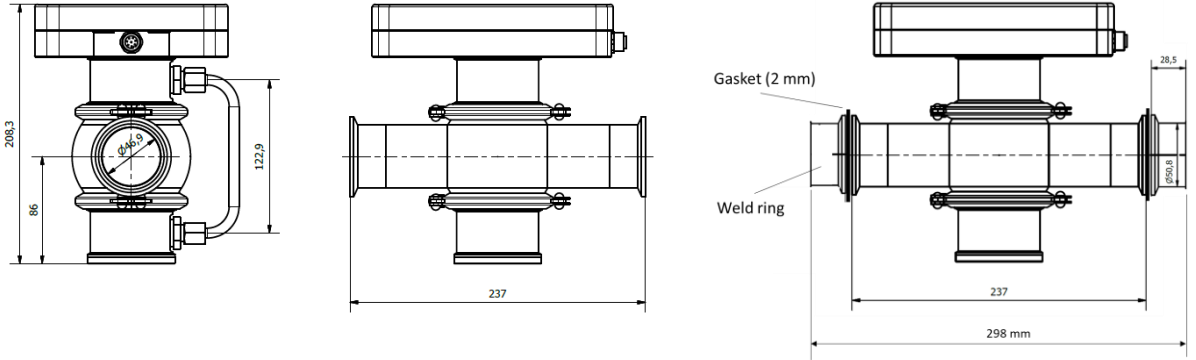
Gaskets
 EPDM
 PTFE Optional

Clamps

Tablet

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

Sensor Model G2 dimensions, mm



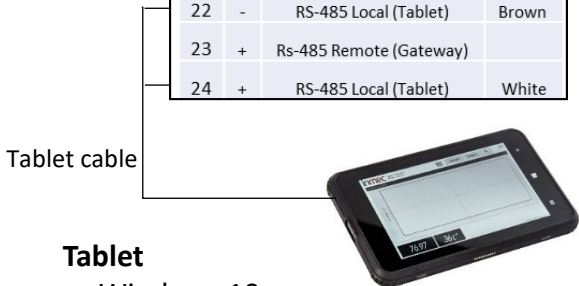
Total installation length, 298 mm

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

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

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

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	EHDG Hygienic design

Environment

Temperature	0 – +70
Housing	IP65
Vibration	max. 20 m/s ² 10-2000Hz

Materials

Model SRC	Model G2 Sensor body, Aisi 316L
Housing Parts	Aluminum, Anonized
Antennas	Ceramic

Weight and dimensions

3.2 kg ; Sensor length 237 mm; Total installation length 298 mm

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