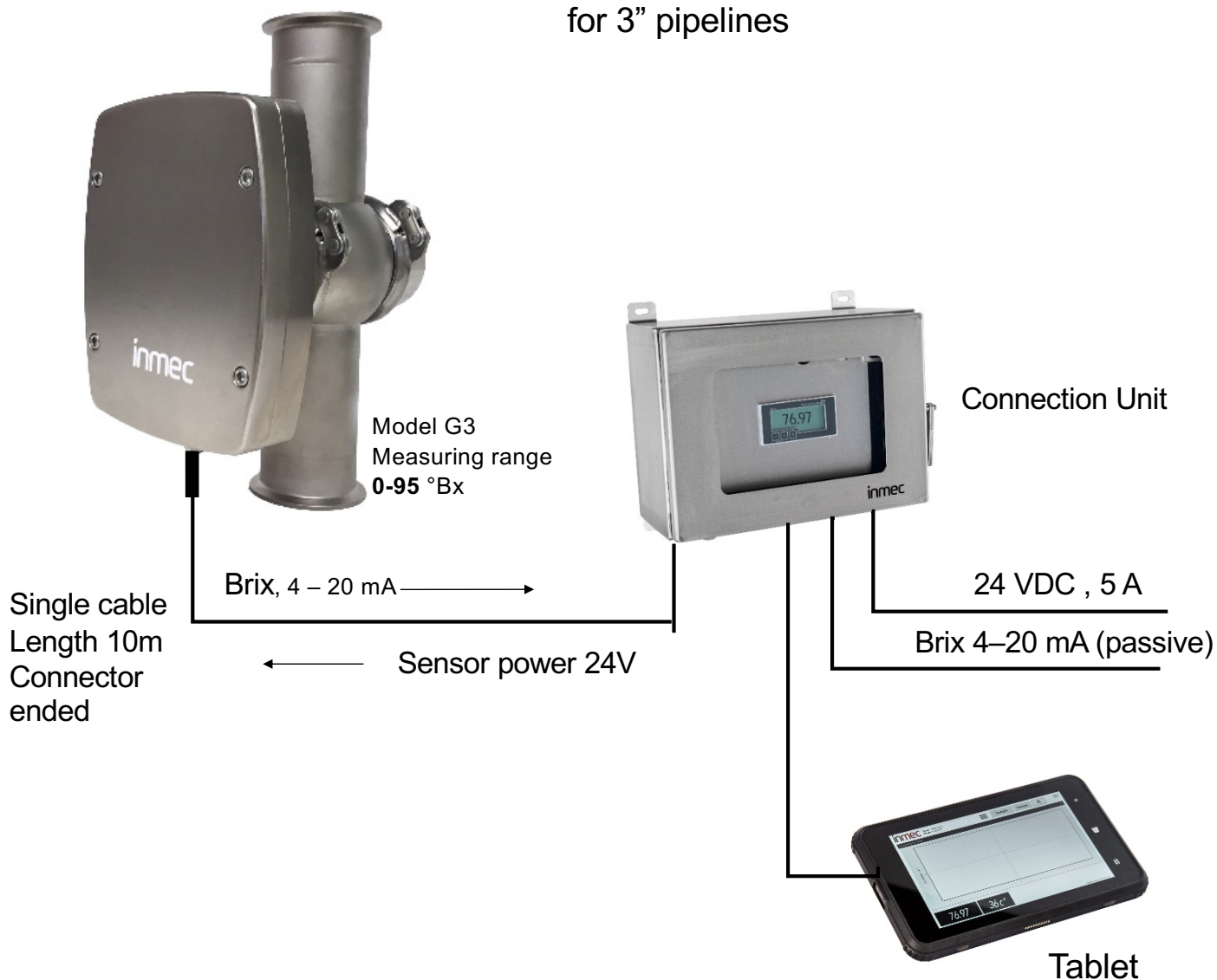
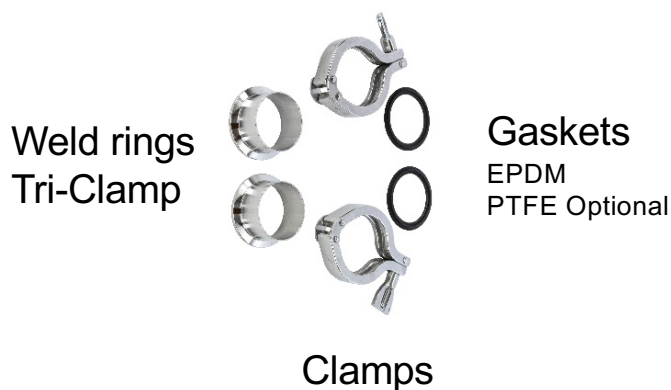


Model G3, Flow Through Brix Sensor for 3" pipelines

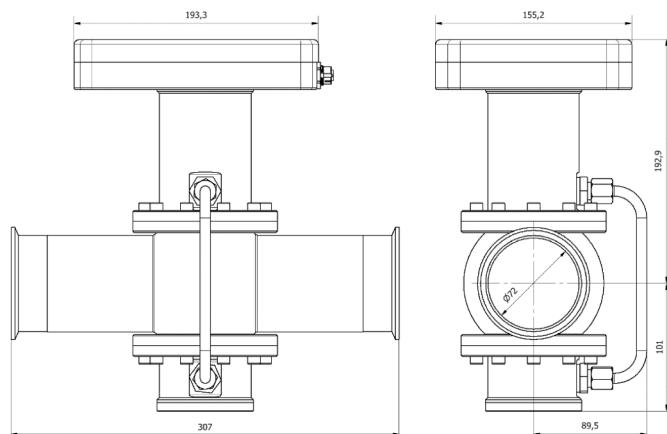


Installation Parts



- Windows 10
- Touch screen 8"
- Rugged
- In-built GSM
- All sensor tuning functions
- Manages all sensors of a mill

Sensor Model G3 dimensions

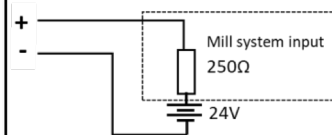


Electrical connections

Sensor cable connections				
X2				
13	+	24 VDC to Sensor	Brown	
14	-	24 VDC to Sensor	Red	
15	+	4-20 mA output passive	Rose	
16	-	4-20 mA output passive	Blue	
17				
18	+	Serial int.	White	
19	-	Serial int.	Grey	
20				
21				

External connections				
X1				
13	+	24 VDC		
14	-	24 VDC		
15	+	4-20 mA output passive		
16	-	4-20 mA output passive		
22				
23				

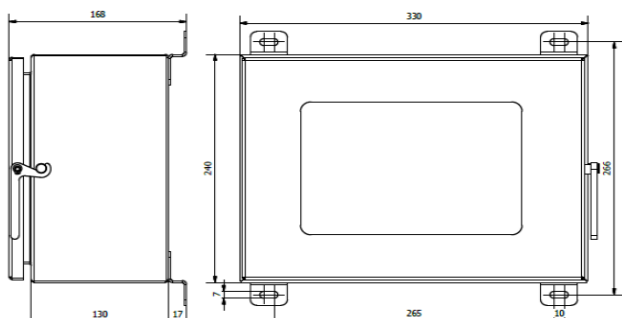
Router connections				
X3				
1	Rx+, Tx+	Data Local	Or/Gr	
2	Rx-, Tx-	Data Local	Ye/Br	
3	Rx+, Tx+	Data Remote	Gr	
4	Rx-, Tx-	Data Remote	Br	



Tablet cable



Connection Unit dimensions



Connection unit features

- Numeric display of Brix, Density or %-Concentration
- 4-20 mA Output, Passive
- GSM Router for Remote access
- 24V power supply for the sensor
- Interface to the Operating Tablet



Sensor specifications Inmec Model G3 sensor

Measurement

Operating power	Sensor	24V, 2 Amps
Microwave power		15 mW
Connection		Cable to Connection unit, 8 wire shielded. Connectors Aisi316L
Process connection		Socket Tri-Clamp
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		4 – 20 mA, passive
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	
• Model G3	PN10 ,
Conductivity	Max. 13mS/cm

Environment

Temperature	0 – +70 ; Protection needed in case of direct heat source
Housing	IP65
Vibration	max. 20 m/s2 10-2000Hz

Materials

Model G3	Sensor body, Aisi 316L
Housing Parts	Aluminum, Aninized. Optional Aisi 316
Antennas	Ceramic

Sensor weight	3.7 kg
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Connection Unit specifications

Operating power	24VDC, 5 A
Connection	Cable to sensor, 10m, 8 wire shielded. Connectors Aisi316L
Output	4 – 20 mA, passive Output

Environment

Temperature	0 – +70
Housing	IP65

Material	Stainles steel
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Unit weight	6 kg
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Dimensions	400*300*250 mm
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Wall mount	4 bolts
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Features

- User features by Tablet
- Remote access via GSM Router
- Numeric display for Brix measurement
- USB connection to Tablet
- 24V supply to the sensor
- 4-20mA output, passive