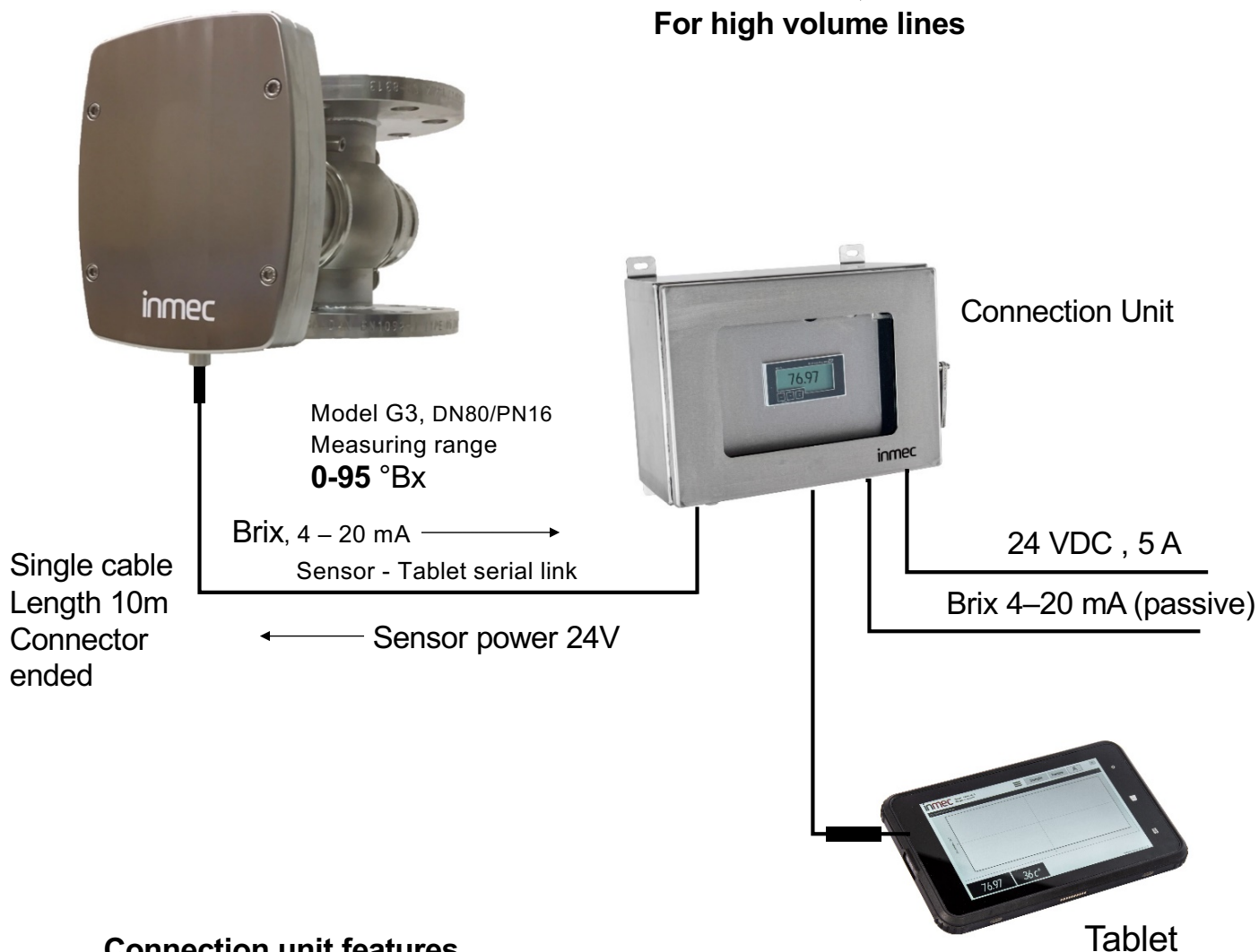


Model G3, DN80/PN16

For high volume lines

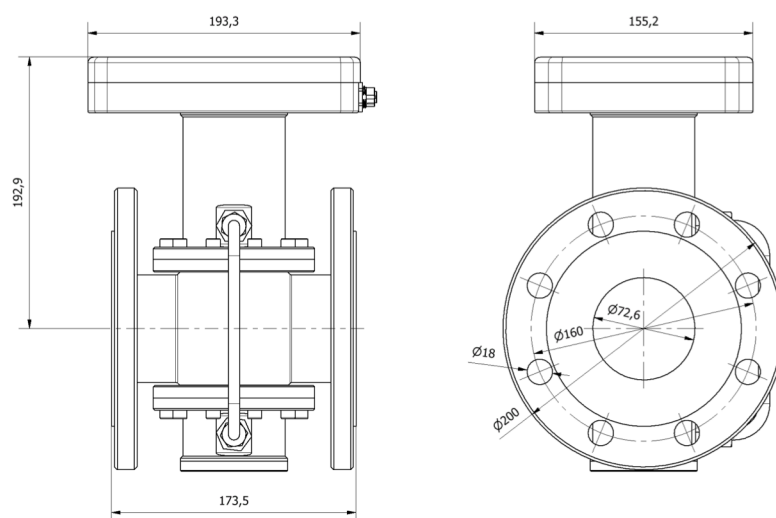


Connection unit features

- 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

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

Sensor Model G3, DN80/PN16 dimensions



Connection Unit, Block connectors

Sensor cable connections

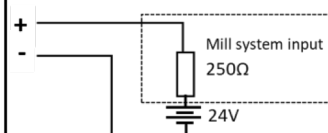
X2

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		



Tablet cable

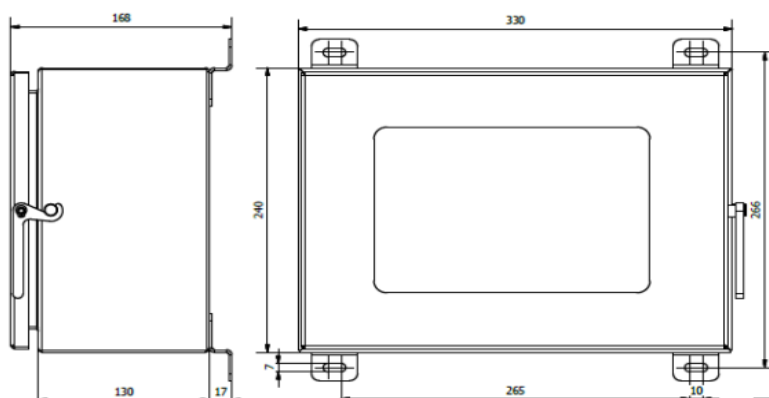


Router connections

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

Connection Unit dimensions



Sensor specifications Inmec Model G3, DN80/PN16 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	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	6.7 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 for Tablet
- 24V supply to the sensor
- 4-20mA output, passive