

FICTIONAL DEMO DOCUMENT - SPECIMEN ONLY. NOT A REAL PRODUCT, APPROVAL OR CERTIFICATE.

LV-120

80 GHz Radar Level Transmitter

Narrow-beam non-contact radar for tanks, vessels and silos.

KEY FEATURES

- 3° beam angle for cluttered tanks
- Reads through vapour, dust and temperature swings
- Bluetooth commissioning from a phone

The LV-120 is an 80 GHz frequency-modulated radar. Its narrow beam passes close to tank walls and agitators and returns a clean echo even from low-dielectric liquids.

TECHNICAL SPECIFICATION

MEASUREMENT	
Principle	80 GHz FMCW radar level
Measuring range	0.05 to 30 m
Accuracy	±1 mm
OUTPUT	
Signals	4–20 mA, HART, Modbus RTU, Profibus PA
PROCESS	
Connection	Flange
Process temperature	-40 to 200 °C
ENVIRONMENT	
Ingress protection	IP67
APPROVALS	
Approvals (demo)	Hazardous-area protection (Ex d), Functional safety SIL 2 capable
MEASUREMENT	
Beam angle	3°
Frequency	80 GHz FMCW
PROCESS	
Max. pressure	-1 to 40 bar
Antenna	Encapsulated PTFE lens
ENVIRONMENT	
Ambient temperature	-40 to 80 °C

Specifications are illustrative demo values created for the INSTRAVA template. Replace with your own product data.