

LPRS80

Compact Radar Level Meter



OVERVIEW

Operation

The Radar Level Meters of DESTA 80 GHz series are excellent devices for no contact level measurement. The microwave impulses, emitted by the radar's antenna, travel at speed of light and a part of the energy, reflected by the surface of the medium to be measured, is received by the same antenna.

Application

- Sediment, cement etc.
- Simple chemical tanks
- Lift station
- Industrial processes
- River, open channel
- Wet wells

Features

- Compact design
- No need air purge
- Cost effective
- More application in remote target detection
- Frequency modulation (FCMW radar)
- Higher resolution
- Long distance imaging and multi-spectral imaging



OPERATING DATA

Frequency

76-81 GHz

Temperature Limit

-40...80°C

Installation

BSPP 1-1/2"

Accuracy

±2 mm

Beam Angle

8°

Response Time

<2 s

Process Pressure

-1...3 Bar

Resolution

1 mm

Repeatability

±1 mm

Enclosure

IP67/ IP68

MEASURING RANGES

Range

0...10 m

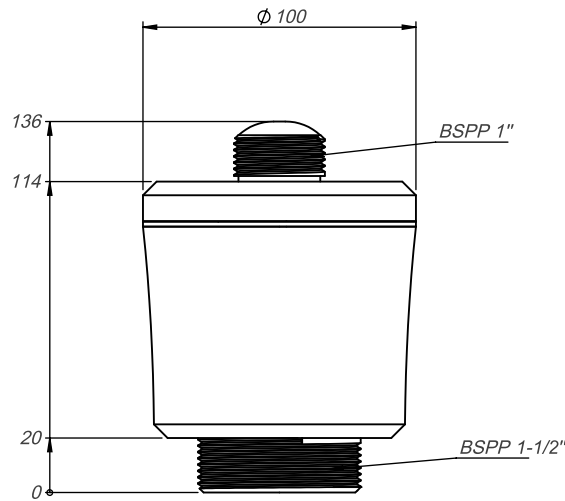
0...30 m

MATERIALS

Antenna

PP/PVDF

TECHNICAL DRAWINGS AND DIMENSIONS



ELECTRICAL DATA

Signal Output

2-wire 4-20mA
HART
MODBUS

Power Supply

18-36 VDC
<0.5 W

Installation

BSPP 1-1/2"

COMMUNICATION

On Request

RS485 Modbus
HART
MODBUS
Bluetooth

ORDERING

Model	
LPRS80	Compact Radar Level Meter

Measuring Range	
5	0...5 m
10	0...10 m
15	0...15 m
30	0...30 m

Communication	
A	4...20 mA
M	RS485 Modbus
H	HART
B	Bluetooth

Electrical Connection	
M	M12 Connector
05	5 m Cable
10	10 m Cable
XX	Please specify in order

Enclosure	
67	IP67
68	IP68

Hazardous Area	
N	None
Xi	Ex ia IIC T6 Ga

