

## RADAR LEVEL TRANSMITTER

### I-SYSTEM RADAR LEVEL TRANSMITTER

Level Measurement  
& Monitoring



#### DESCRIPTION

The I-SYSTEM radar level transmitter supports four wire system and two wire system applications. Multiple models are available, with the maximum measurement range up to 120m, with 10cm blind area. It offers higher frequency and shorter wave length, suitable for solid applications. There are also models available for operating environment with high dust and harsh temperature environments (+200°C). Universal flange or threaded connection allows easy installation and convenience.

#### TECHNICAL FEATURES

<b>Transmission Frequency</b>	76 to 81GHz, FM scanning frequency width 5GHz
<b>Measuring Range</b>	35m / 85m / 120m
<b>Accuracy</b>	± 1mm
<b>Beam Angle</b>	3° / 8°
<b>Range of Dielectric</b>	>=2
<b>Constant Use</b>	
<b>Power Supply</b>	18-28 V DC, four wire system (<1W)
<b>Communication</b>	HART / MODBUS
<b>Signal Output</b>	4 to 20mA / RS-485
<b>Industrial Temperature / Humidity</b>	-4 to 85 °C
<b>Process Pressure</b>	-0.1 to 2MPa
<b>Shell Material</b>	Aluminum alloy, Stainless Steel
<b>Product Size</b>	Ø100 x 270mm
<b>Cable Gland</b>	M20 x 1.5
<b>Recommended Cable</b>	AWG18 or 0.75mm <sup>2</sup>
<b>Protection</b>	IP67
<b>Explosion Proof</b>	EXib    C T6 Gb
<b>Process Connection</b>	Threaded / Flange

#### FEATURES

- ✓ Frequency range: 76-81GHz
- ✓ Antenna beam angle: 3° or 8°
- ✓ High signal-to-noise ratio
- ✓ Small blind area
- ✓ 5GHz working bandwidth with higher resolution and accuracy
- ✓ Bluetooth module (optional)



## DIMENSION/DRAWING

Diagram of Pipe Thread Process Connection  
at Room Temperature

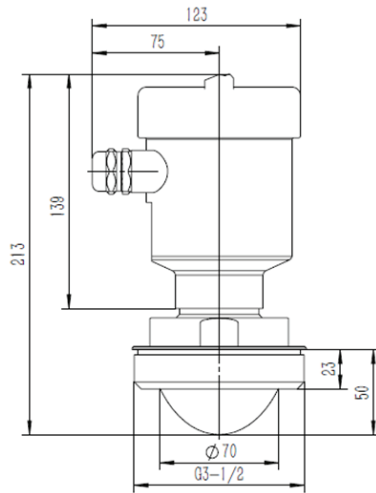
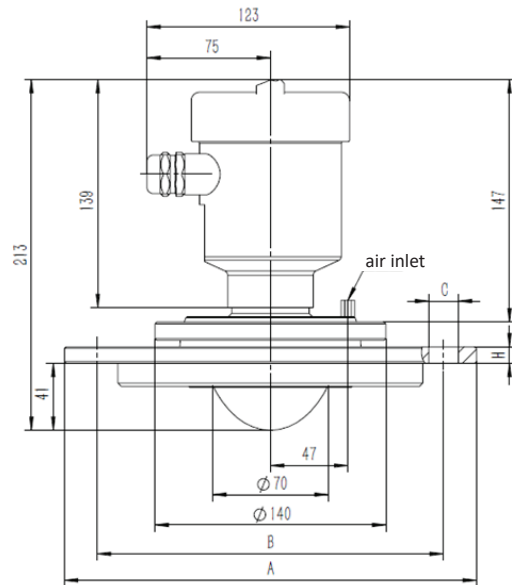


Diagram of Universal Flange  
Universal High Temperature Structure

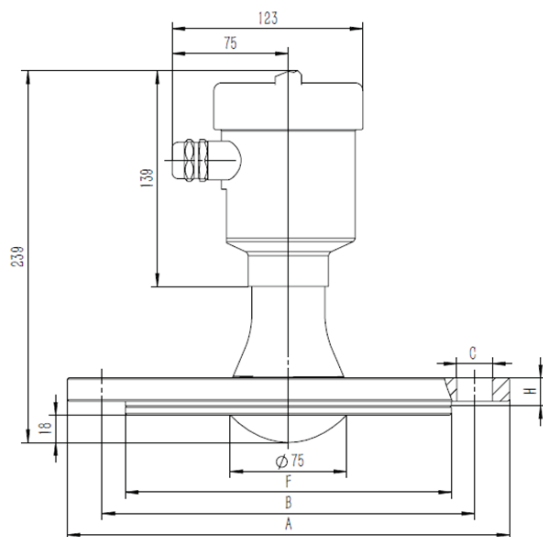


	A	B	C	H
DN80	Ø190	Ø150	4-Ø18	15
DN100	Ø210	Ø170	4-Ø18	15
DN125	Ø240	Ø200	8-Ø18	17
DN150	Ø265	Ø225	8-Ø18	17
DN200	Ø320	Ø280	8-Ø18	19



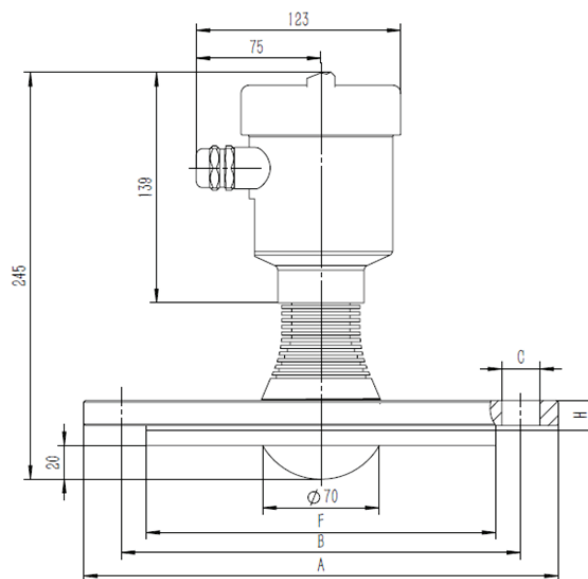
## DIMENSION/DRAWING

Diagram of Anti-corrosion Flange Structure



	A	B	C	F	H
DN80	Ø190	Ø150	4-Ø18	Ø128	18
DN100	Ø210	Ø170	4-Ø18	Ø148	18
DN125	Ø240	Ø200	8-Ø18	Ø178	20
DN150	Ø265	Ø225	8-Ø18	Ø202	20
DN200	Ø320	Ø280	8-Ø18	Ø258	22

Diagram of High Temperature and High Pressure Structure

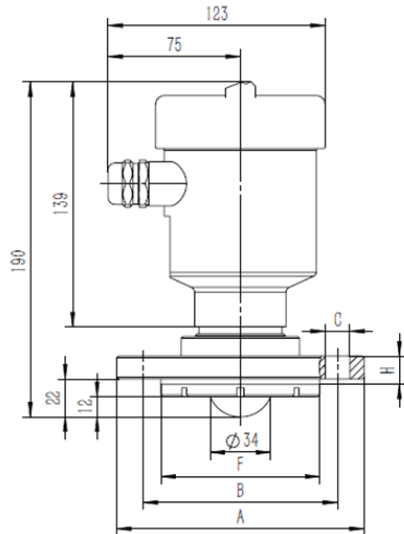


	A	B	C	F	H
DN80	Ø200	Ø160	8-Ø18	Ø138	20
DN100	Ø220	Ø180	8-Ø18	Ø158	22
DN125	Ø250	Ø210	8-Ø18	Ø188	22
DN150	Ø285	Ø240	8-Ø22	Ø212	24
DN200	Ø340	Ø295	12-Ø22	Ø268	26



## DIMENSION/DRAWING

Diagram of Anti-corrosion Flange Under  
Normal Temperature and Pressure



	A	B	C	F	H
DN50	Ø140	Ø110	4-Ø14	Ø90	16
DN65	Ø160	Ø130	4-Ø14	Ø110	16

