CPR6300 Specification Sheet

4 ... 20 mA/HART - 2 wire/4 wire Radar sensor for continuous level measurement of aggressive liquids under high pressure

Area of application

The CPR6300 is a radar sensor for continuous level measurement of aggressive liquids under high pressure. It is suitable for applications in storage tanks, process vessels, dosing vessels and reactors, especially suitable for difficult processing conditions.

Feature and benefit

- **Twin-chips**

With two chips, CPR6300 achieves higher processing ability.

- **Multi-Track**

Due to new Multi-Track wave tracking algorithm, CPR6300 gets highest reliability.

- **Waves Memo**

With wave management function. To help understand abnormal output, CPR6300 storages wave automatically.

Function

Measuring system operates based on the time-of-flight method (ToF). It measures the distance from the reference point (process connection) to the product surface. Radar impulses are emitted by an antenna, reflected off the product surface and received again by the radar system. The time from emission to reception of the signals is proportional to the level in the vessels. A special time stretching procedure allows reliable and precise measurement of the extremely short signal running times.

Technical data

Measuring range	0 ~ 70m
Sample frequency	54Hz
Response time	<2s
Resolution	1mm
Deviation	±3mm
Repeatability	±1.5mm
Frequency	26GHz
Ambient temperature	-40℃ ~ 70℃
Process temperature	-40℃ ~ 150℃
Process pressure	-1 ~ 16 bar
Protect level	IP67

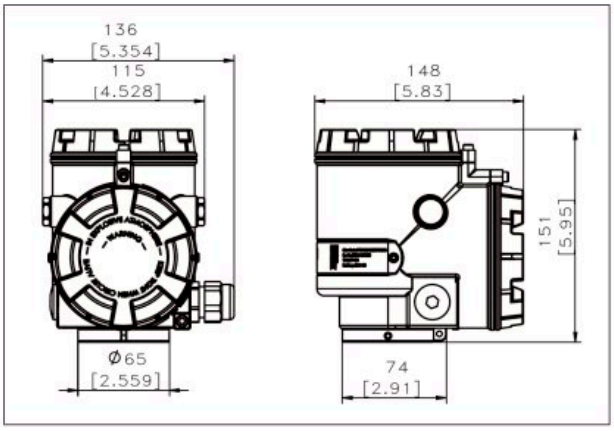
Material

The antenna is made of PTFE and the process seal is made of FKM.

Housing version

The housings are available as single chamber version and double chamber version in stainless steel or aluminium. They are available with protection ratings up to IP 67 (1 bar).

Double chamber housing



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