



## Scanrad Radar Level Transmitter

### Scanrad SC R8 80 GHz Radar Level Transmitter



#### Key features

- Compact 80 GHz design
- Simple 2 wire connection
- 4 - 20mA / HART / RS485 outputs
- Range up to 45 Metres
- Operation  $-40$  to  $+80^{\circ}\text{C}$
- Pressure Max 40Mpa
- Accuracy  $\pm 2\text{mm}$  to  $\pm 5\text{mm}$
- Power up Self-test diagnostics
- Automatic false echo suppression
- Certified I.S. II 1G Ex ia IIC T6...T3 Ga



## Scanrad Radar Level Transmitter

### Scanrad Radar Level Transmitter

Scanrad is a high accuracy pulse radar transmitter intended for tank level measurement for typical application for Ship-board duties on:-

- Barges
- Chemical Carriers
- Product Carriers

It is also suitable for general industrial application.

The compact design is offered with DN80 flanged mounting.

Inbuilt diagnostic software enables the user to map an installation to filter out echoes from In-tank obstacles to ensure accurate measurement

### SPECIFICATION

Measurement Range: 30 to 45 Metres, depending on application.  
Microwave frequency: Pulse 80GHz  
Measuring interval: ~1 second  
Adjustment time: ~1 second Accuracy: +/-3mm  
3dB Beam Angle: DN80 Flange 6°  
Process Temperature: -40 to +150° C  
Storage Temperature: -40 to +100 °C  
Pressure: 40MPa Maximum  
Relative Humidity: <95%  
I.S. Approval: II 1G Ex ia T6...T3 Ga  
Protection Class: IP67  
Weight: Approx. 7Kg  
Power (2 wire HART):21.6~26.4VDC  
Power Consumption: Max 22.5mA  
Output: 4-20mA/HART/RS485 Resolution of mA: 1.6µA

### MATERIALS

Housing: SS316L Mo 2.8  
Enclosure: SS316L Mo 2.8  
Flange: SS316L Mo2.8  
Process seal: PTFE

### PROCESS CONNECTION

Standard: DN80

**ELECTRICAL CONNECTION** Cable conduit: M20 x 1.5

**WEIGHT** 7Kg

