

A Higher Level of Performance



Data Sheet

Senator H80C Compact Radar Series

Level Measurement



For more information, please visit >
www.hawkmeasurement.com

Overview

Senator H80C Compact Radar Series



Overview

Offering a unique blend of compact design and efficiency, the Senator H80C is a 80GHz FMCW radar level transmitter ideal for continuous level measurement of liquids. It guarantees value without compromising quality and ease of operation. With its flexible mounting options, high chemical compatibility, and a 30m (98ft) measuring range, the HAWK H80C is versatile enough to meet the demands of diverse industrial applications. Simple commissioning via HawkBTConnect bluetooth App, Goshawk PC software & the HRC HART Remote Configurator.

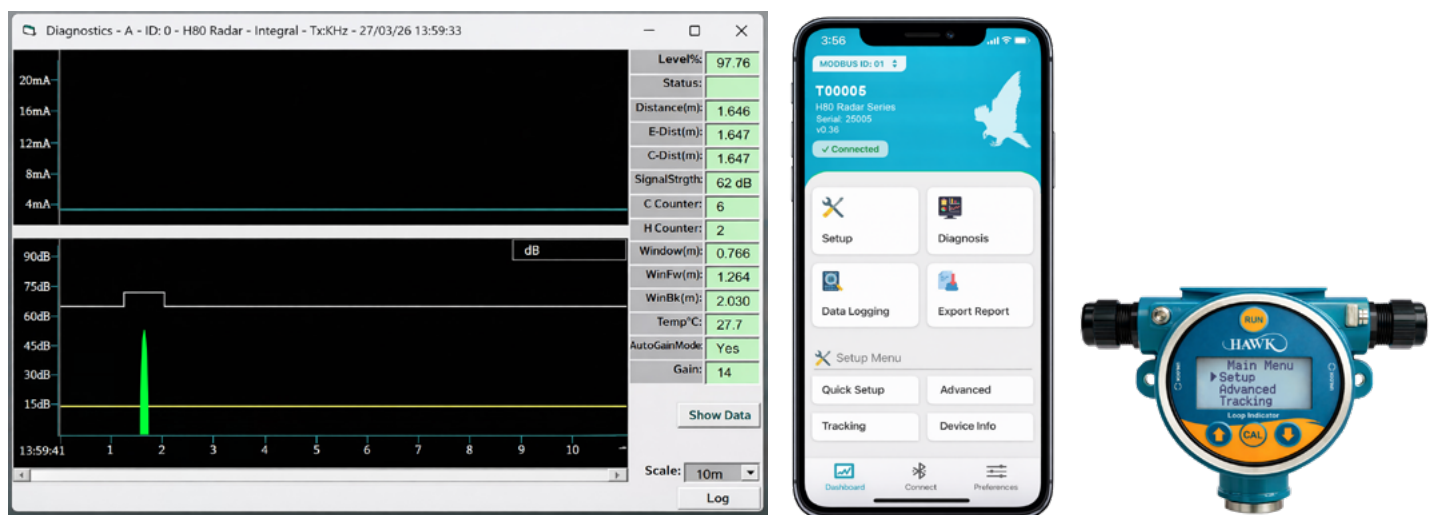
Principle of Operation

The Senator H80C transmits a radar pulse at the speed of light, bouncing off the surface of the measured liquid. Proprietary software then analyzes the returned signal, enhancing the accurate reflection while eliminating any false ones.

Primary Areas of Application

- Liquids
- Oil & Gas
- Chemicals
- Pharmaceutical
- Petrochemicals
- Pulp & Paper
- Cement
- Wastewater
- Beverages

Simple Commissioning via Keypad, HawkBTConnect Bluetooth App & Goshawk Software

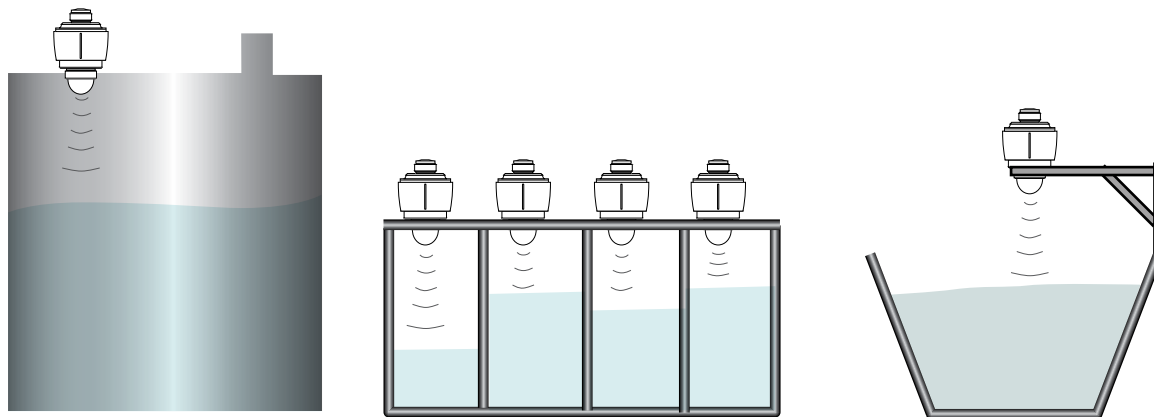


Features

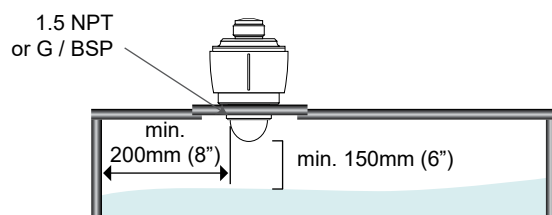
- 80GHz FMCW Radar
- 4-20mA, HART, Modbus output options
- Full commissioning via HawkBTConnect Bluetooth App, Goshawk PC software & HRC HART Remote Configurator
- Maximum range to 30m (98ft)
- Non-contact measurement
- Low cost per measuring point
- Ingress protection class IP67
- Compact design



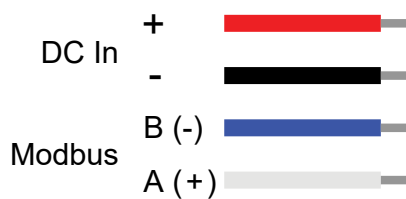
Level Measurement



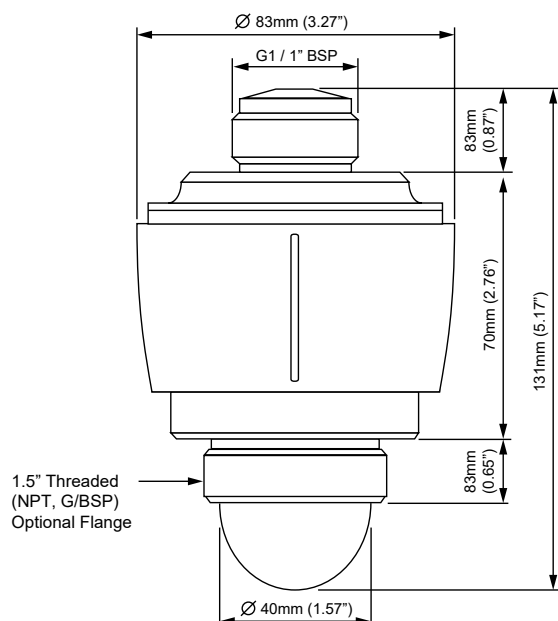
Mounting



Wiring



Dimensions



Part Numbering

Senator H80C Compact Radar Series



Part Numbering

For Liquids Applications

Model

H80C HAWK Radar Compact Version, Bluetooth

Application

L Liquids

Maximum Range

10 10m (32.8ft)

20 20m (65.6ft)

30 30m (98.4ft)

Output

H 4-20mA HART, Modbus

M Modbus

Housing

P Polypropylene

Cable Entry

X Not required

Mounting

TB15 1.5" BSP / G1.5

TN15 1.5" NPT

Mounting / Antenna Material

P Polypropylene

Temperature

1 -20 to +60 (-4 to +140°F)

Pressure

1 Atmospheric

Approval

XX Not required

Cable Length

06 6m (19.6ft)

H80C L 20 H A M TN15 P 1 1 XX 06

Specifications

Senator H80C Compact Radar Series



Frequency

- 80GHz FMCW

Operating Voltage

- 18 - 36VDC at the terminal

Communications

- Modbus
- HART 7
- PC Software (Goshawk)
- App (Bluetooth), iOS & Android

Blanking Distance

- 150 mm (4")

Maximum Range

- Up to 30m (98ft)

Resolution

- 1 mm (0.04")

Accuracy

- Liquids: +/- 2mm (0.08")

Response Time

- <1 second

Sample Rate

- <3 second

Startup Time

- Approx. 50 seconds

Memory

- Non-volatile

Operating Temperature

- -20°C to +60°C (-4 to +140°F)

Beam Angle

- 8°

Enclosure Material

- Polypropylene

Antenna / Mounting Material

- Polypropylene

Enclosure Sealing

- IP67

Mounting

- 1.5" (NPT, G/BSP)

Typical Weight

- 0.4kg (0.89lb)

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Additional product warranty and application guarantees upon request.
Technical data subject to change without notice.

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