

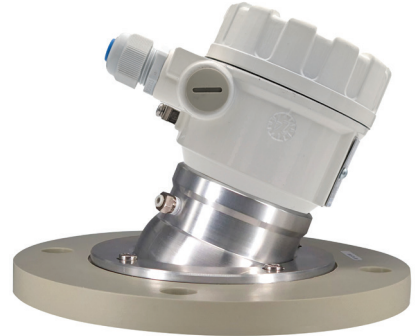


## DESCRIPTION

The SiloTect Non-Contact Radar Level Transmitter ensures precise, reliable level measurement in both dry-bulk and liquid applications. Utilizing advanced 80 GHz FMCW technology, it delivers millimeter accuracy in even the most challenging environments. Designed for materials like grains, cement, powders, granules, plastics, and coal, SiloTect is ideal for industries such as building materials, feed mills, food production, and energy. Its versatility extends to liquid applications, handling emulsions, chemicals, and other substances found in water treatment, pharmaceuticals, and chemical processing. Whether measuring fine powders in silos or viscous liquids in tanks, SiloTect adapts seamlessly, providing accurate, dependable measurements across a wide range of industries.

## HOW IT WORKS

SiloTect utilizes 80 GHz Frequency Modulated Continuous Wave (FMCW) radar technology to achieve millimeter-accurate level measurement. Its compact antenna, narrow beam angle, and superior focus enhance precision while minimizing sensitivity to polarization and clutter. By emitting millimeter-wave energy and analyzing the frequency shift of reflected signals, SiloTect calculates distance, level, or volume based on programmed vessel height. Setup is effortless, whether remotely via EView2 software or from the silo using Bluetooth<sup>®</sup> and the MobileEView app.



## FEATURES AND BENEFITS

**80 GHz Technology:** Ensures millimeter-accurate level measurement, improving efficiency and reducing material waste.

**Bluetooth Compatibility:** Simplifies programming, configuration, and monitoring via the MobileEView app.

**Flexible Communication:** Supports Analog, HART, Bluetooth, and relay for seamless system integration.

**Customizable Design:** Choose from two housing types (stainless steel, painted aluminum) and four antenna materials (stainless steel, PTFE, PVDF, polypropylene) for diverse applications.

**Standard & Aiming Flanges:** Available in multiple sizes (3", 4", and 5") with an aiming flange for precise targeting.

**Air Purge:** Designed to protect the radar face from material buildup and moisture, ensuring consistent measurement accuracy while maximizing uptime in harsh silo environments.

**Quickstart Configuration:** Enables fast, hassle-free setup and minimal downtime.

**5-Year Warranty:** Ensures long-term reliability and lower total cost of ownership.

**High-Temperature Version\*:** Designed for extreme heat, ensuring performance in demanding environments.

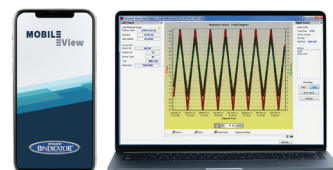
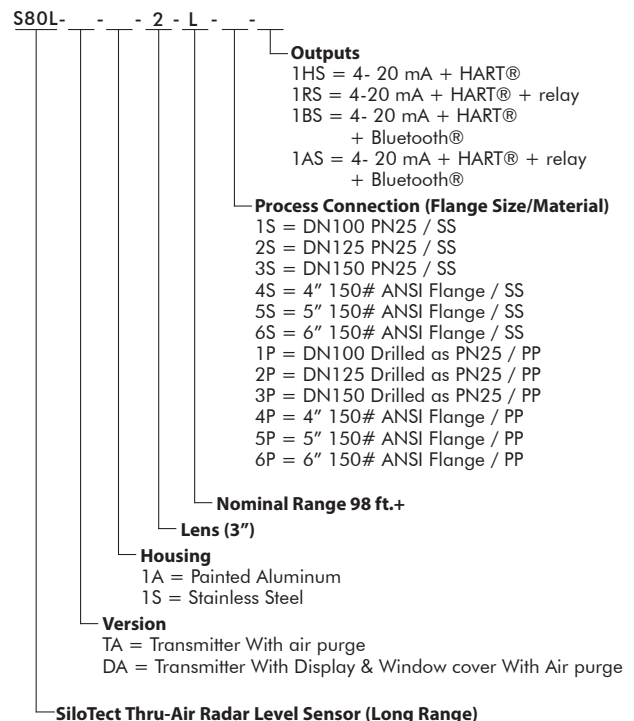
**Plug-In Graphic Display:** Provides real-time data visualization and diagnostics for efficient operation.

**Up to 98-Foot+ Measurement Range:** Handles large silos and tanks with ease.

**ATEX & FM Approved\*:** Certified for safe operation in hazardous and explosive environments

\*Coming Soon +For applications above 98ft., please consult factory

## HOW TO ORDER (LONG RANGE)



**On-Site and Remote Access:** Use the MobileEView app for on-the-go adjustments or the free EView2 software on your laptop or desktop.

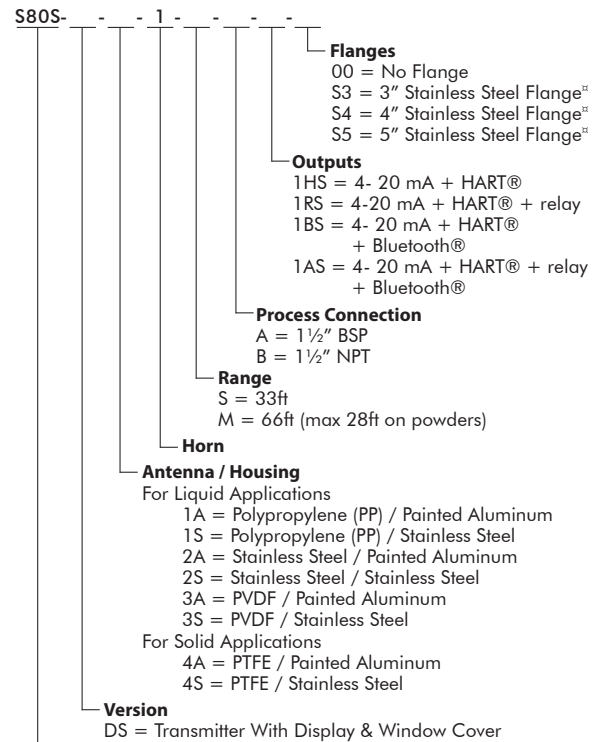
## SPECIFICATIONS

Signal Frequency	77...81 GHz
Measuring Frequency	~1/s
Max Range Options	Up to 33ft (10m), Up to 66ft (20m), Up to 98ft (30m)+
Supply Voltage	12...36 V DC
Electrical Connection	2× M20×1.5 cable glands + 2× internally threaded 1/2" NPT connection, cable outer diameter: Ø6...12 mm (shielded cable is recommended), wire cross section: 0.5...1.5 mm <sup>2</sup> (20...15AWG)
Output	4...20 mA, HART®, Bluetooth®, Relay (optional)
Accuracy	± 0.078" (±2 mm) - ± 0.157" (± 4 mm) to scale
Dead Zone	0ft (0m)
Lowest εr Of Medium	S80S: εr ≥ 1.9 S80L: εr ≥ 1.4
Process Pressure	PP, PVDF, PTFE antenna: -1...3 bar (-0.1...0.3 MPa; -14.5...43.5 psi) Stainless steel antenna: -1...40 bar (-0.1...4.0 MPa; -14.5...580 psi)
Ratings / Approvals	IP66 / IP67 (NEMA 4X / 6), ATEX*, FM*
Process Temperature	Standard Version: -40...+158 °F (-40...+80 °C) High Temp Version: -40...+400 °F (-40...+200 °C)*
Ambient Temperature	Standard Transmitter Only: -40... +158 °F (-40...+70 °C) Standard Transmitter With Display: -4...+158 °F (-20...+70 °C) High Temp Transmitter Only: -40... +140 °F (-40...+60 °C)* High Temp Transmitter With Display: -4...+140 °F (-20...+60 °C)*
Process Connections	1 1/2" NPT, 1 1/2" BSP, 3"-5" Stainless Steel Flange, 4"-6" Aiming Flange
Tilt Angle	± 15°
Flange Options	Stainless Steel: 3", 4", 5", 6"* Aiming Flange: 4", 5", 6"
Antenna Materials	Polypropylene, PVDF, PTFE, Stainless Steel
Housing Materials	Painted Aluminum, Stainless Steel
Weight	<b>Short Range</b> <b>Long Range</b> Painted Aluminum: 2.4...4.4 lb (1.1...2 kg)      Painted Aluminum: 3.3...5.5 lb Stainless Steel: 5.3...6.4 lb (2.4...2.9 kg) Stainless Steel: 5.5...7.7 lb (2.5...3.5 kg)

\*Coming Soon

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## HOW TO ORDER (SHORT RANGE)



<sup>†</sup>Flanges only available with 1 1/2" NPT Process Connection

