

# **SMARTLINE** **LEVEL** **TRANSMITTERS**

Taking User Experience and Plant Performance to a Whole New Level



**Honeywell**

# SMARTER ON EVERY LEVEL

Honeywell's SmartLine® Level Transmitter sets a new standard for total performance and user experience. SmartLine is the industry's first modular and most reliable family of transmitters, delivering total value across the entire plant lifecycle.

## SMARTLINE DELIVERS

Efficient  
Control System  
Integration

Leading  
Performance  
and User  
Experience

Unique  
Features That  
Lower Your  
Total Cost of  
Ownership

"We like the new features on the Honeywell SmartLine series of transmitters. The [universal terminal] is a great idea and very valuable to us... also, we find the enhanced diagnostics and modular design very helpful."

- PETER EVANS

INVISTA

## SMARTLINE CONNECTION ADVANTAGE WITH EXPERION PKS

All SmartLine transmitters integrate with all control systems. In addition, seamless integration with Honeywell's Experion® Process Knowledge System (PKS), brings these unique advantages to the operators:

- Extended diagnostics for assessing the health of critical field assets
- Maintenance status display for ensuring the transmitter is in the right mode before maintenance is performed
- Transmitter messaging allowing the operator to send messages to the transmitters' advanced display.



With better performance, modular construction, an advanced display and the best integration features, Honeywell helps customers reduce project costs and startup time, avoid unplanned downtime, improve product quality, reduce spare parts inventory and shorten time to repair.

### APPLICATION VALIDATION TOOL

The new Application Validation Tool allows you to avoid costly errors upfront by validating the SmartLine Level Transmitter against your specified process tank. The Application Validation Tool interfaces to Honeywell's order management system so that the transmitter you get is the transmitter you specified. The tool also brings Honeywell level experts to your desktop through a joint, online collaborative engineering session. Documentation of the inputted tank design parameters and the transmitter configuration preserves your engineering work electronically. The entered information is used to pre-program the SmartLine Level Transmitter delivered to you, so it is ready to operate out of the box.

### MODULAR DESIGN

All SmartLine transmitters are modular in design, making it easy to replace or upgrade hardware in the field, even under power, without affecting overall performance or impinging on approval body certifications. Some modules are shared with SmartLine Pressure and Temperature Transmitters, further reducing inventory and enhancing flexibility.



## ADVANCED DISPLAY AND CONFIGURATION

Rich advanced display and local configuration capabilities enable field operators to more efficiently perform tasks, solve problems and avoid errors with no need for a handheld device.

In addition to configuring with any handheld device using the new device type managers (DTMs), users can configure the transmitters through externally accessible buttons, even in an intrinsically safe environment. Now, whether on the bench or in the field, configure, change tag information, change languages and even more without additional devices.

## ECHO STEM PLOT

The SmartLine Level Transmitter displays an echo stem plot, providing measurement values for flange location, level and interface. The complete echo curve can be viewed through Experion PKS or common configuration tools such as Field Device Manager.

## UNIVERSAL TERMINALS

Loop wiring can be reversed without damaging or affecting normal operations. This reduces costly wiring errors, troubleshooting and rework, saving valuable commissioning time.

## WITH PLUG-IN MODULES, USERS CAN EASILY ADD OR UPGRADE:

- Advanced digital displays
- Field-exchangeable communication modules for HART® or Foundation™ Fieldbus
- Wiring terminal boards for standard or advanced lightning-protected applications
- Three-button local configuration.



# SMARTLINE LEVEL GUIDED WAVE RADAR SLG700

With best-in-class performance, modular construction, an advanced display and the best integration features, SmartLine® Level Transmitters deliver total value across the entire plant lifecycle.

## HONEYWELL TRANSMITTERS ARE RECOGNIZED FOR THEIR UNSURPASSED PERFORMANCE AND ACCURACY:

- Able to measure liquids and interfaces in wide range of applications:
  - Pressure range: -1 bar to 400 bar (-14 psi to 5801 psi)
  - Temperature range: -60°C to 450°C (-76°F to 842°F)
  - Flanges starting from DN40 and 11/2 inches
  - NPT thread starting from 3/4 inches
  - Wetted materials rated for corrosive environments: alloy C-276 and SS316
- Accuracy: ±3 mm or 0.03% of measured distance
- Repeatability: ±1 mm
- Resolution: 1 mm
- 2-wire, 4-20 mA loop power
- HART and Foundation Fieldbus output options
- Transmitter configuration write protection
- Isolation of internal transmitter circuitry to prevent ground loops
- 2 kV electrical transient immunity
- Unequaled local display capabilities
- Field configuration through external three-button facility
- Recall capability of last good calibration
- Universal terminal connections
- Comprehensive on-board diagnostic capabilities
- Full compliance to SIL 2/3 requirements as a standard
- Advanced display supports:
  - Up to eight screens with three formats: process variable, bar graph and trend
  - Full library of engineering units with the ability to add custom units
  - Configurable screen rotation timing
  - Multiple languages
  - Two diagnostic indications
  - 90-degree position adjustments.



# SMARTLINE LEVEL NON CONTACT RADAR SLN700

SmartLine SLN700 Non contact radar is available for liquid as well as solid level measurements. Level Transmitters offer high accuracy and stability over a wide range of Level applications. SmartLine Level transmitters are an ideal solution for demanding process level needs, with easy-to-use and low maintenance character.

- 80 GHz FMCW technology
- Narrow beam, small blind zone & accurate measurement
- Immunity to temperature, pressure, most obstacles and dust
- False echo suppression option
- Easy setup, no dielectric constant dependence
- Small antenna size fits most process: easy to install
- High resolution: better accuracy and process detail
- Measuring range: up to 30 m (liquids) / 120 m (solids)
- Accuracy  $\pm 2$  mm
- Process Temperature range:  $-40$  to  $200$  °C
- Process Pressure range:  $-1$  to  $25$  bar
- Operating voltage:  $12$  to  $30$  V DC
- Output signal:  $4 - 20$  mA & HART®, RS-485 / Modbus



### **For more information**

To learn more about Honeywell's SmartLine Transmitters, visit [www.honeywellprocess.com/smartline](http://www.honeywellprocess.com/smartline) or contact your Honeywell account manager.

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WHAT  
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