



**Temposonics**

AN AMPHENOL COMPANY

**V**

**THE NEW GENERATION**

**Temposonics® R-Series V**

# STAY AHEAD OF TECHNICAL TRENDS.

## TempoGate® Smart Assistant

- Supports setup of R-Series V in your application
- Provides additional status information for diagnostics of the sensor such as:
  - Current sensor status
  - Internal temperature of the sensor
  - Total distance travelled by the position magnet
  - Total operating hours
- Transfers the additional information via OPC UA
- Is designed for integration in control cabinet
- Displays the user interface on your smartphone, tablet, or computer via an integrated Wi-Fi access point
- Allows connection up to 24 R-Series V sensors, simultaneously



# BACKWARD COMPATIBLE.

*SAVE YOUR TIME WITH TEMPOSONICS SENSORS...*

Easy to switch to the new R-Series V as no mechanical or electrical changes are required.

R-Series V sensors are backward compatible:

- Proven mechanical connections and designs
- Proven electrical connections and designs
- Well-known high performance and quality



# MORE RELIABLE.

SAVE YOUR TIME WITH TEMPOSONICS SENSORS...

Use R-Series V in harsh environment without further actions on your end and ensure the high quality of your applications.

R-Series V sensors are more robust than ever:

- Increased shock and vibration resistance
- Extended operating temperature range
- Larger supply voltage range



# R-Series V SSI (Synchronous-Serial Interface)

## ...offers high accuracy

The sensor is characterized by a very stable position signal with a minimum resolution of 0.1  $\mu\text{m}$ . This allows the sensor to offer a very precise position measurement for your application.

## ...is ready for Industry 4.0

During operation, additional information can be collected in addition to the position measurement via the TempoLink<sup>®</sup> and TempoGate<sup>®</sup> smart assistants.

- Transfer of additional information is independent from the position data
- No adjustment of the transferred position data required
- Easy sensor setting up in your application



# MORE POWERFUL.

SAVE YOUR TIME WITH TEMPOSONICS SENSORS...

High accuracy of R-Series V ensures high performance of your application.

R-Series V sensors are more powerful than ever:

- Minimum resolution of up to 0.1  $\mu\text{m}$
- Synchronization for precise position measurement in time-critical applications
- Multi-position measurement of up to 30 magnets (position and velocity)





# KEEP EVERYTHING UNDER CONTROL.

## TempoLink® Smart Assistant

- Supports setup of R-Series V in your application
- Provides additional status information for diagnostics of the sensor such as
  - Current sensor status
  - Internal temperature of the sensor
  - Total distance travelled by the position magnet
  - Total operating hours
- Is designed for mobile use on-site
- Displays the user interface on your smartphone, tablet, or computer via an integrated Wi-Fi access point
- Allows connection to any R-Series V sensor



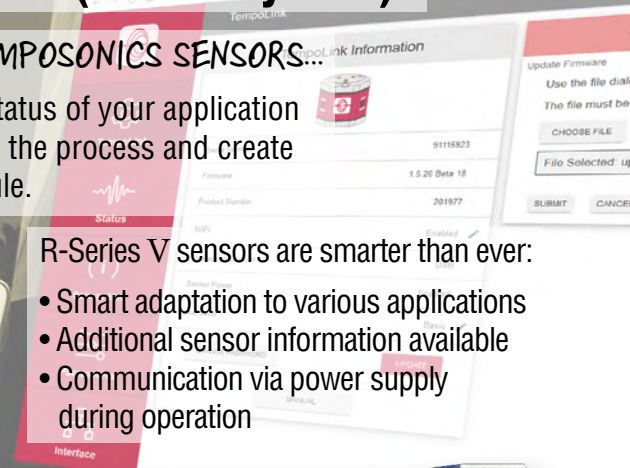
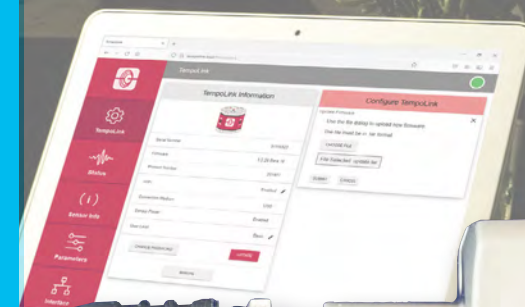
# READY FOR IIoT (Industry 4.0).

## SAVE YOUR TIME WITH TEMPOSONICS SENSORS...

Detailed information about the status of your application helps to identify optimizations in the process and create a predictive maintenance schedule.

R-Series V sensors are smarter than ever:

- Smart adaptation to various applications
- Additional sensor information available
- Communication via power supply during operation



The advanced features and the new, smarter functions of the R-Series V sensors as well as the TempoLink® smart assistant and the TempoGate® smart assistant will make your existing and new applications future-proof and ready for Industry 4.0.

# R-Series V

## Mechanical styles

- Rod style
- Profile style

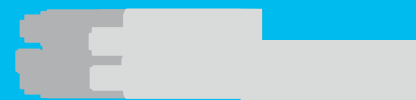
Additional models coming soon.

## Electrical interfaces

- Analog
- EtherCAT® with Distributed Clock
- PROFINET with RT (Real Time) and IRT (Isochronous Real Time)
- EtherNet/IP™ with CIP Sync (Common Industrial Protocol) and DLR (Device Level Ring)
- POWERLINK (synchronous measurement possible)
- SSI (Synchronous-Serial Interface)

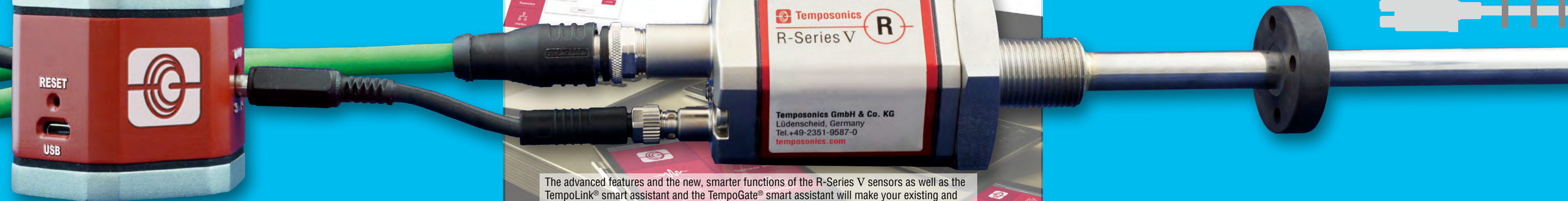
# 37%

smaller sensor electronics housing allows a more **compact construction.**  
(Output depending)



# 33%

increase in the number of positions that can be measured simultaneously means **fewer sensors** are required for multi-position measurement.  
(Output depending)



# SAVE YOUR TIME FOR THE THINGS YOU LOVE.

*"No matter what the issue is, at Temposonics we always have a personal contact person who gives us the right information directly and without delay. And everyone knows how pleasant this can be, saving time and nerves."*

**(G. Siempelkamp GmbH & Co. KG)**

*"During the assembly of our cylinders, especially when position sensors are to be installed upon customer request, it is essential that everything in the supply chain is coordinated seamlessly. With Temposonics, we have a reliable partner who allows us to always deliver a complete solution on time to our customers."*

**(Herbert Hänchen GmbH & Co. KG)**

*"Temposonics employees are characterized by a high degree of application-oriented expertise. When integrating the position sensors, they also support the mechanical and electrical optimization of the system and no place is too far to provide personal support. This saves us time and increases our productivity."*

**(Bosch Rexroth AG)**

*"As a manufacturer of machines and plants for the steel industry, we rely on absolutely reliable and robust technologies that can withstand our harsh environmental conditions. Thanks to the high quality and durability of Temposonics' sensors, we don't have to worry about that. Always reliable, they allow smooth production."*

**(SMS group GmbH)**

*"As a trendsetter in automation technology, Festo stands for top quality and customer-oriented innovation. In order to drive these developments forward, it is essential to work together with the right companies. We have a long-standing technology partnership with Temposonics. Together we work on innovative products and trend-setting solutions for our customers."*

**(Festo AG & Co. KG)**

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