

Data Sheet

TempoGate® Smart Assistant

Magnetostrictive Linear Position Sensors

- OPC UA server for diagnostics of the R-Series V
- For installation in the control cabinet
- Connection via LAN and Wi-Fi



THE ACCESSORY FOR THE R-SERIES ${\bf \rm V}$

The TempoGate[®] smart assistant is an accessory for the R-Series V sensors family. It is installed in a control cabinet and provides additional status information of the sensors for monitoring and diagnostics of your plant during operation. In addition, the TempoGate[®] smart assistant supports the setup of the sensors in your application.

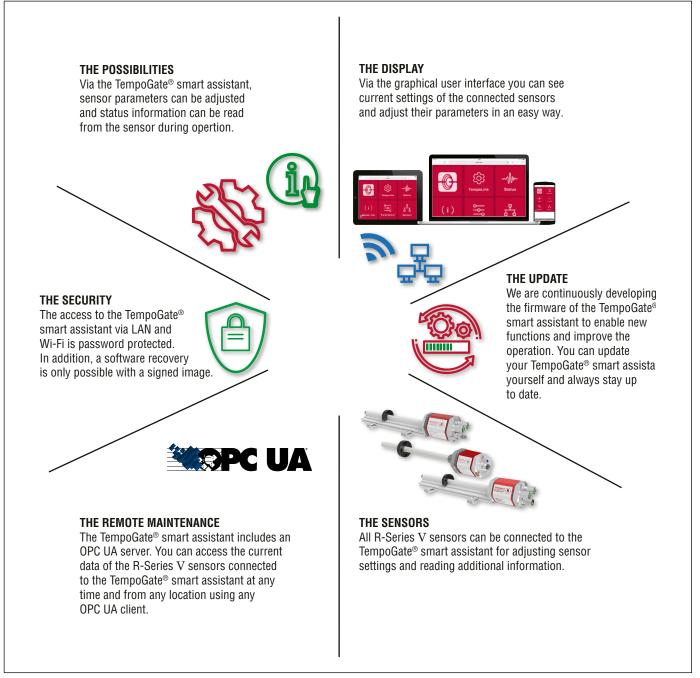


Fig. 1: The main advantages of the TempoGate® smart assistant

TECHNICAL DATA

Operation conditions	
Operating temperature	-20+60 °C (-4140 °F)
Ingress protection	IP20
Vibration test	2g/10Hz150Hz/2.5 h, DIN EN 60068-2-6
Shock test	15g/11ms, DIN EN 60068-2-27
EMC test	Immunity: EN61000-6-2, Emission: EN61000-6-3, FCC, ISED, RED
Design / Material	
Housing	Gateway: Metal Connection Module: Polyamide
Electrical connection	
Connection type	Gateway: 3 pin connection, 2 × USB, 1 × RJ45 Connection module: 4 × push-in per channel
Operating voltage	Gateway: 24 VDC (–15/+20 %) Connection module: +1230VDC
Power consumption	0.21 W + power of the connected sensors
Polarity protection	Up to -36 VDC
Wi-Fi	
Wi-Fi standard	IEEE 802.11b/g/n
Frequency range	2.4 GHz: 2.412 GHz2.472 GHz

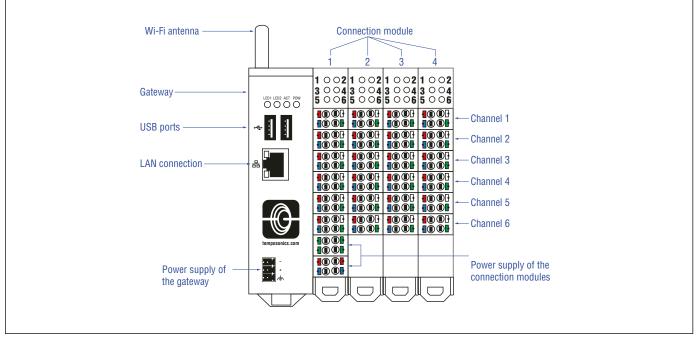


Fig. 2: Setup of the TempoGate® smart assistant with one gateway and up to four connection modules

SETUP OF THE TEMPOGATE® SMART ASSISTANT

The TempoGate® smart assistant consists of a gateway and up to four connection modules. Connection modules can also be ordered separately and added later to a TempoGate® smart assistant (see page 6).

CONNECTION OF THE R-SERIES ${\bf V}$

The data lines of the R-Series V sensors are connected to the controller as usual. The power supply lines of the R-Series V sensors are connected to one of the up to six channels of a connection module (Fig. 3). Two options are available for the voltage supply of the sensors:

- A common power supply for all channels via connection module 1, so that all channels and thus all sensors are supplied with voltage at the same time.
- An individual power supply for each channel, so that each channel and thus each sensor is supplied with voltage separately.

COMMUNICATION WITH THE TEMPOGATE® SMART ASSISTANT AND THE CONTROL SYSTEM

The data for position and velocity measurement are transmitted to the controller as usual. In parallel, the R-Series V sensors communicate with the TempoGate[®] smart assistant via their power supply. Thus, additional status information can be reported during operation. Via the OPC UA server of the TempoGate[®] smart assistant, this information can be transmitted to a status monitoring system and evaluated.

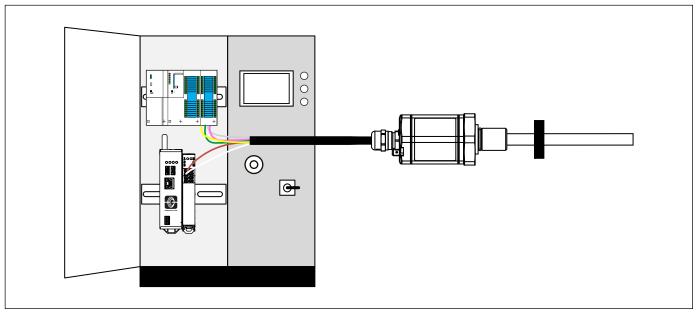


Fig. 3: Schematic diagram for simultaneous connection of the R-Series V to a TempoGate® smart assistant and a controller using the example of an R-Series V with SSI output

TECHNICAL DRAWING

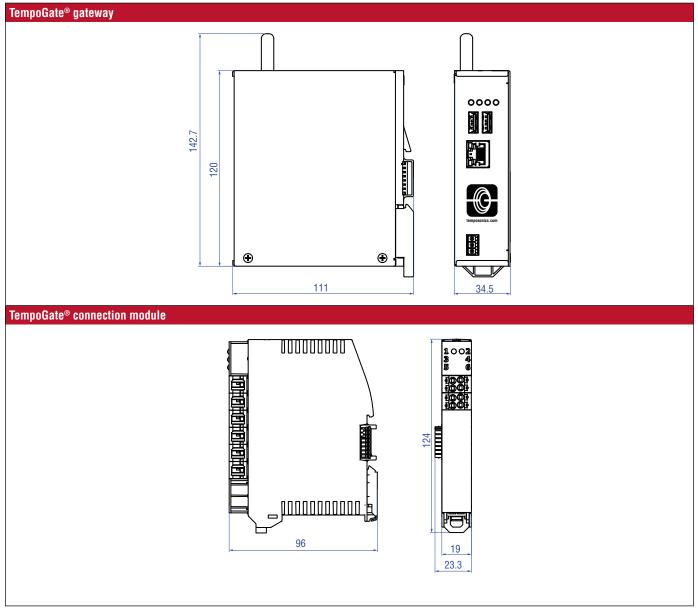
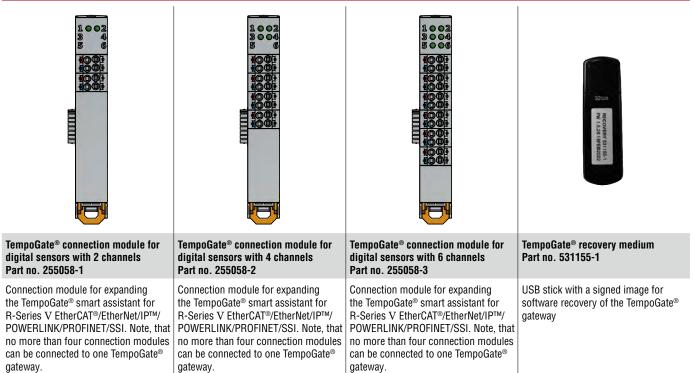


Fig. 4: Gateway and connection module of the TempoGate® smart assistant

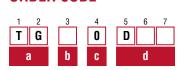
FREQUENTLY ORDERED ACCESSORIES



Recovery



ORDER CODE



а	Туре				
T	T G TempoGate [®] smart assistant kit				
b	Power supply per channel at the connection module				
C	Common power supply for all channels via connection module 1				
Ι	Individual power supply for each channel				
C	c Options				
0	0 No options				
d Number of digital channels for connection of R-Series ${f V}$					
D	X X D02D24 (0224 channels for R-Serie V EtherCAT [®] ,				
	EtherNet/IP ^M , POWERLINK, PROFINET or SSI)				
	only even number of digital channels possible				

DELIVERY



TempoGate® smart assistant kit

- TempoGate[®] smart assistant gateway
- Depending on the selected configuration: one to four connection modules for 2...24 digital R-Series V sensors
- Power supply for gateway (3 pin connector)



UNITED STATES Temposonics, LLC Americas & APAC Region	3001 Sheldon Drive Cary, N.C. 27513 Phone: +1 919 677-0100 E-mail: info.us@temposonics.com	Document part number: 552110 Revision A (EN) 06/2022
Temposonics GmbH & Co. KG	Auf dem Schüffel 9 58513 Lüdenscheid Phone: +49 2351 9587-0 E-mail: info.de@temposonics.com	FCCCE CERTIFIED
ITALY Branch Office	Phone: +39 030 988 3819 E-mail: info.it@temposonics.com	14.0
	Phone: +33 6 14 060 728 E-mail: info.fr@temposonics.com	
	Phone: +44 79 44 15 03 00 E-mail: info.uk@temposonics.com	
SCANDINAVIA Branch Office	Phone: + 46 70 29 91 281 E-mail: info.sca@temposonics.com	
	Phone: +86 21 2415 1000 / 2415 1001 E-mail: info.cn@temposonics.com	
JAPAN Branch Office	Phone: +81 3 6416 1063 E-mail: info.jp@temposonics.com	

temposonics.com

© 2022 Temposonics, LLC – all rights reserved. Temposonics, LLC and Temposonics GmbH & Co. KG are subsidiaries of Amphenol Corporation. Except for any third party marks for which attribution is provided herein, the company names and product names used in this document may be the registered trademarks or unregistered trademarks of Temposonics, LLC or Temposonics GmbH & Co. KG. Detailed trademark ownership information is available at www.temposonics.com/trademarkownership.