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Electrical Engineering
INSTITUTE

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ROTOR WIRELESS MONITORING SYSTEM – RWMS

www.koncar-institut.com // www.koncarmonitoring.com

Rotor Wireless Monitoring System - RWMS

RWMS is modular system designed for various measurements on rotating part of a machine. Usually a pole temperature is monitored, but excitation current and voltage as well as rotor vibrations or an air-gap can be monitored as well.

RWMS transmitter unit is powered by 24VDC obtained from an excitation system or from an Energy Harvester®. Processed signals are transferred wirelessly to the receiver unit located on the stator.

The RWMS system starts automatically when it is connected to a power supply and no additional actions for start-up are necessary.

RWMS features

- On-line rotor analysis
- Data base (trends, alarms ...)
- Local/remote HMI

RWMS specification

Architecture:

- real time controller

Power Supply:

- Power supply: 24VDC (from excitation or Energy Harvester®)
- Power: 10 W
- Maximum allowed power supply interruption: 100 ms for 230 VAC/ 20 ms for 115 VAC
- Isolation voltage: 3 kVAC/1 minute
- Short circuit protection: YES

Analogue Inputs:

- Temperature (PT100 – up to 8 channels, digital sensors – up to 100 sensors)
- Excitation current/voltage (up to 2 channels)
- Rotor vibrations (up to 4 channels)
- Air gap (up to 2 channels)

Communication:

- Wi-Fi (between static and rotating part of the system)
- Ethernet 10/100

Temperature range:

- Operational temperature range: 0°C to +70°C

Dimensions:

- Custom (defined for specific installation position)

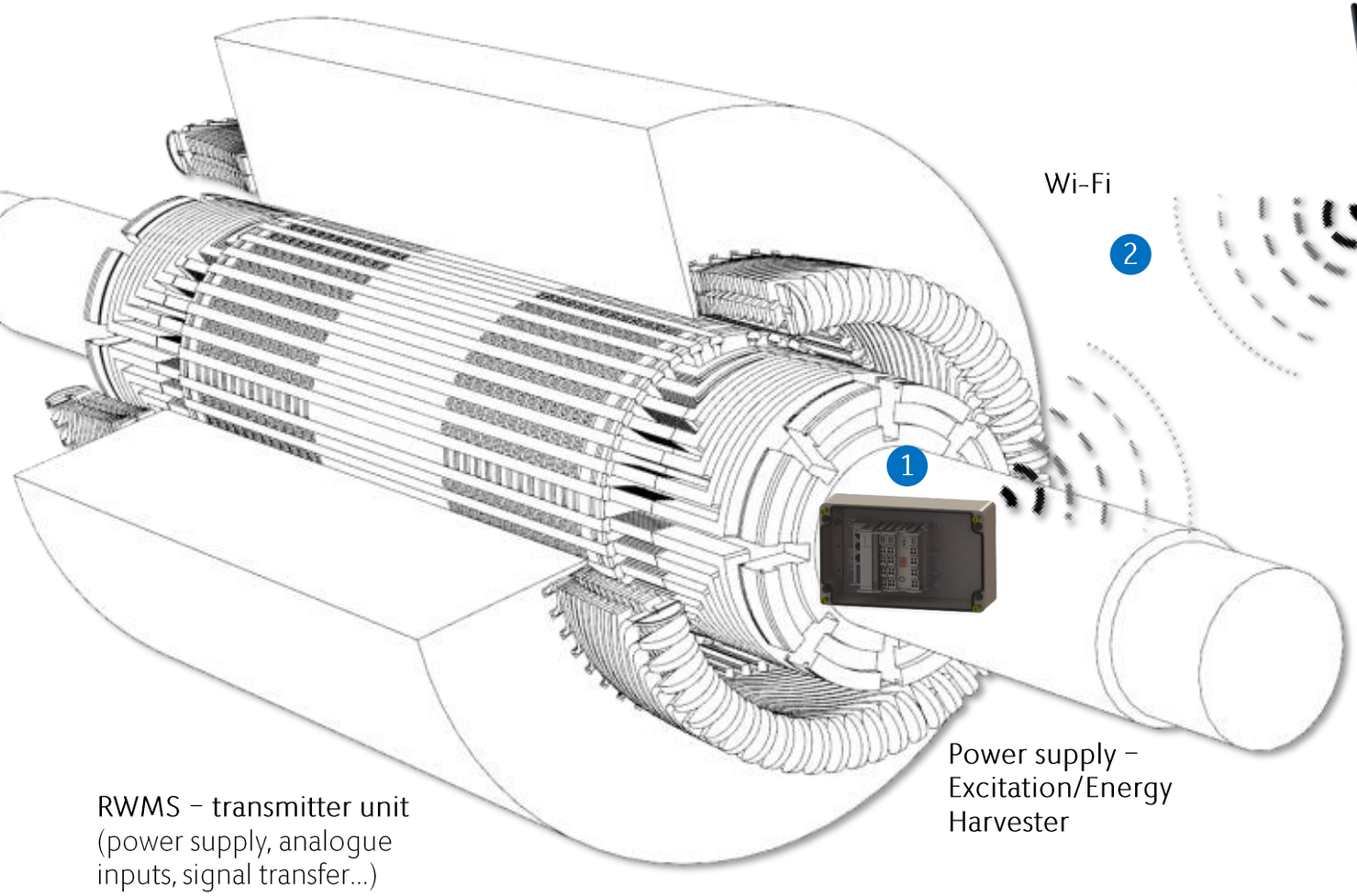
RWMS – receiver unit
(data base, local HMI, web server, ...)

3

Wi-Fi

2

HMI



1

RWMS – transmitter unit
(power supply, analogue
inputs, signal transfer...)

Power supply –
Excitation/Energy
Harvester

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Contact us for more information!

www.koncar-institut.com
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