

GENERAL DESCRIPTION

The RM169-1 are radiomodem with 1 optically isolated digital inputs and 1 digital relay outputs, an RS-232/485 serial interface, all of which are software configurable. The embedded inputs and outputs allow the RM169-1 radiomodem to be used in data acquisition and remote control applications.

RM169-1 has 4 operating modes that are software programmable: radiomodem, mirror point to point, Modbus slave, or Modbus master, allowing greater flexibility in the field.

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Data Encryption 128bit AES (Advanced Encryption Standard) ensures transmitted data security.

A power-saving function is built in, to activate inputs only when required, allowing for extended battery life.

Function available for each operating mode.

FOR TECHNICAL SPECIFICATION, INSTALLATION AND CONFIGURATION INSTRUCTION AND MORE DETAILS DOWNLOAD FROM OUR WEB SITE WWW.SENECA.IT THE RM169-1 USER MANUAL

TECHNICAL SUPPORT

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RESTRICTIONS ON USE

SENECA PRODUCTS HAVE NOT BEEN DESIGNED, INTENDED NOR INSPECTED TO BE USED IN ANY LIFE SUPPORT RELATED DEVICE OR SYSTEM RELATED FUNCTION NOR AS A PART OF ANY OTHER CRITICAL SYSTEM INCLUDED AERONAUTICAL / AEROSPACE APPLICATION.

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The RM169-1 can be used in the following countries with E.R.P. and duty cycle limitation, either on licence free channels or on channels where the operation requires a licence. More detailed information is available at the local frequency management authority.

Country allowed (4)

ALB-AND-AUT-BEL-BIH-BLR-BUL-CYP-CZE-D-DNK-E-EST-F-FIN-G-GRC-HNG-HOL-HRV-I-IRL-ISL-LIE-LTU-LUX-LVA-MDA-MKD-MLT-MNE-NOR-POL-POR-ROU-RUS-S-SRB-SUI-SVK-SVN-TUR-UKR

Allowed use according to ERC Recommendation 70-03

RM169-1	Frequency (MHz)	Annex (1)	E.R.P (2)	Duty Cycle (3)	Country (4) with restriction of use
	169,400 – 169,475	1	≤ 500 mW	≤ 1 %	BLR-RUS-UKR
	169,400 – 169,475	2	≤ 500 mW	≤ 10 %	BLR-RUS-UKR

NOTE:

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- The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.
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We: **SENECA s.r.l.**
via Austria 26 , 35127 Padova – ITALIA
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declare under our sole responsibility that the products:

Trademark: **SENECA**
Model: **RM169-1**
Description: **Radiomodem 168 Mhz for wireless data transmission.**

to which this declaration relates complies with the relevant EU harmonization directives:

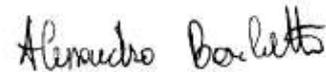
- 2014/53/EU, Harmonized Standards for the Radio Equipment Directive (RED Directive)
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The following harmonised standards and/or technical specifications have been applied:

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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
REV0:	06/09/2017	DC002220

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Tribunale di Padova
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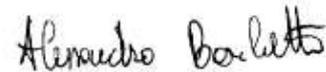
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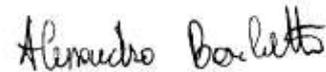
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RM169-1	Frequency (MHz)	Annex (1)	E.R.P (2)	Duty Cycle (3)	Country (4) with restriction of use
	169,400 – 169,475	1	≤ 500 mW	≤ 1 %	BLR-RUS-UKR
	169,400 – 169,475	2	≤ 500 mW	≤ 10 %	BLR-RUS-UKR

NOTE:

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- Place the antenna at a height greater than or equal to 2 m above the general public walkway that gives general public access.
- Do not install the equipment close to a heat source or in damp conditions and direct sunlight is also to be avoided.
- The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.
- The device must not be exposed directly to dusty environment.
- Maintenance should only be carried out by qualified persons.
- For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.
- Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits

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Tel: 049.870.53.59; email: info@seneca.it

declare under our sole responsibility that the products:

Trademark: **SENECA**
Model: **RM169-1**
Description: **Radiomodem 168 Mhz for wireless data transmission.**

to which this declaration relates complies with the relevant EU harmonization directives:

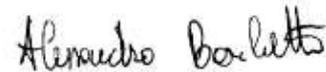
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
REV0:	06/09/2017	DC002220

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Tribunale di Padova
Reg. Soc. n. 39486
C.C.I.A.A. n. 236346
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Data Encryption 128bit AES (Advanced Encryption Standard) ensures transmitted data security.

A power-saving function is built in, to activate inputs only when required, allowing for extended battery life.

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The RM169-1 can be used in the following countries with E.R.P. and duty cycle limitation, either on licence free channels or on channels where the operation requires a licence. More detailed information is available at the local frequency management authority.

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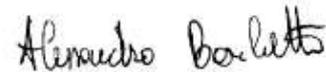
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
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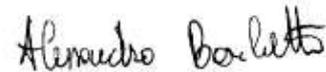
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REV1:		
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Description: **Radiomodem 168 Mhz for wireless data transmission.**

to which this declaration relates complies with the relevant EU harmonization directives:

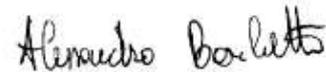
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
REV0:	06/09/2017	DC002220

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Tribunale di Padova
Reg. Soc. n. 39486
C.C.I.A.A. n. 236346
C.F. / P.I. 02536650282

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Function available for each operating mode.

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The RM169-1 can be used in the following countries with E.R.P. and duty cycle limitation, either on licence free channels or on channels where the operation requires a licence. More detailed information is available at the local frequency management authority.

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Allowed use according to ERC Recommendation 70-03

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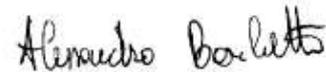
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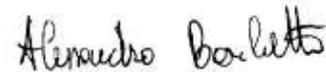
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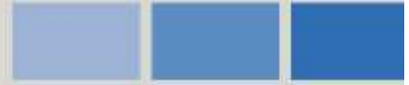
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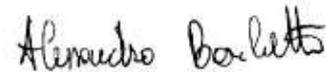
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Allowed use according to ERC Recommendation 70-03

RM169-1	Frequency (MHz)	Annex (1)	E.R.P (2)	Duty Cycle (3)	Country (4) with restriction of use
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declare under our sole responsibility that the products:

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Model: **RM169-1**
Description: **Radiomodem 168 Mhz for wireless data transmission.**

to which this declaration relates complies with the relevant EU harmonization directives:

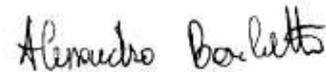
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
REV0:	06/09/2017	DC002220

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Tribunale di Padova
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to which this declaration relates complies with the relevant EU harmonization directives:

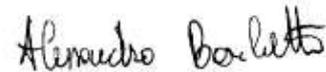
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
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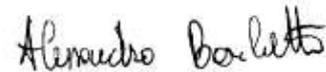
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- The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.
- The device must not be exposed directly to dusty environment.
- Maintenance should only be carried out by qualified persons.
- For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.
- Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits

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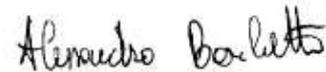
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PADOVA , 06.09.2017

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REV1:		
REV0:	06/09/2017	DC002220

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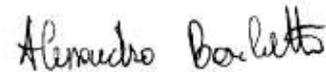
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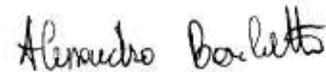
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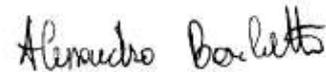
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C.F. / P.I. 02536650282

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The RM169-1 can be used in the following countries with E.R.P. and duty cycle limitation, either on licence free channels or on channels where the operation requires a licence. More detailed information is available at the local frequency management authority.

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Allowed use according to ERC Recommendation 70-03

RM169-1	Frequency (MHz)	Annex (1)	E.R.P (2)	Duty Cycle (3)	Country (4) with restriction of use
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NOTE:

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- Do not install the equipment close to a heat source or in damp conditions and direct sunlight is also to be avoided.
- The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.
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- Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits

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EU Declaration of Conformity (DoC)

We: **SENECA s.r.l.**
via Austria 26 , 35127 Padova – ITALIA
Tel: 049.870.53.59; email: info@seneca.it

declare under our sole responsibility that the products:

Trademark: **SENECA**
Model: **RM169-1**
Description: **Radiomodem 168 Mhz for wireless data transmission.**

to which this declaration relates complies with the relevant EU harmonization directives:

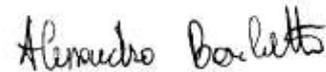
- 2014/53/EU, Harmonized Standards for the Radio Equipment Directive (RED Directive)
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The following harmonised standards and/or technical specifications have been applied:

Safety:	EN60950-1 (2007) +A1 (2010) +A2 (2013) +A11 (2009) +A12 (2011)
RADIO	EN 301 220-4 (V1.1.1)
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
REV0:	06/09/2017	DC002220

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Tribunale di Padova
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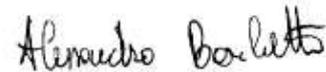
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PADOVA , 06.09.2017

P.I. Alessandro Barbetta



REV1:		
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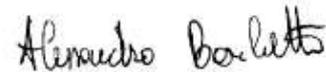
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