RC66
Radio Receiver

Radio transmission

for touch probes

Installation instructions	English
Type	P03.6600-010

📖 Installation instructions interface **IF**59-A2 (P03.5900-000.011)

Keys:

CAUTION

Important advice for appliance protection

📖 Advice to secondary literature

☞ Additional advice

Tip

GN LED shines GN LED flashes

GN Green RD Red BU Blue OG Orange VT Violet

Abbreviations:
M_d Tightening Torque

1. Safety Rules

CAUTION

Risk of short-circuit
Please separate connecting cable resp. plug connection off circuit only.

2. System Overview

2.1 Description

The radio receiver is compatible with the BLUM measuring devices **TC** series (radio probes TC60, TC63-30). The receiver enables wireless communication between the measuring devices and the NC control. Data transfer to the NC control via IF59-A2 interface.

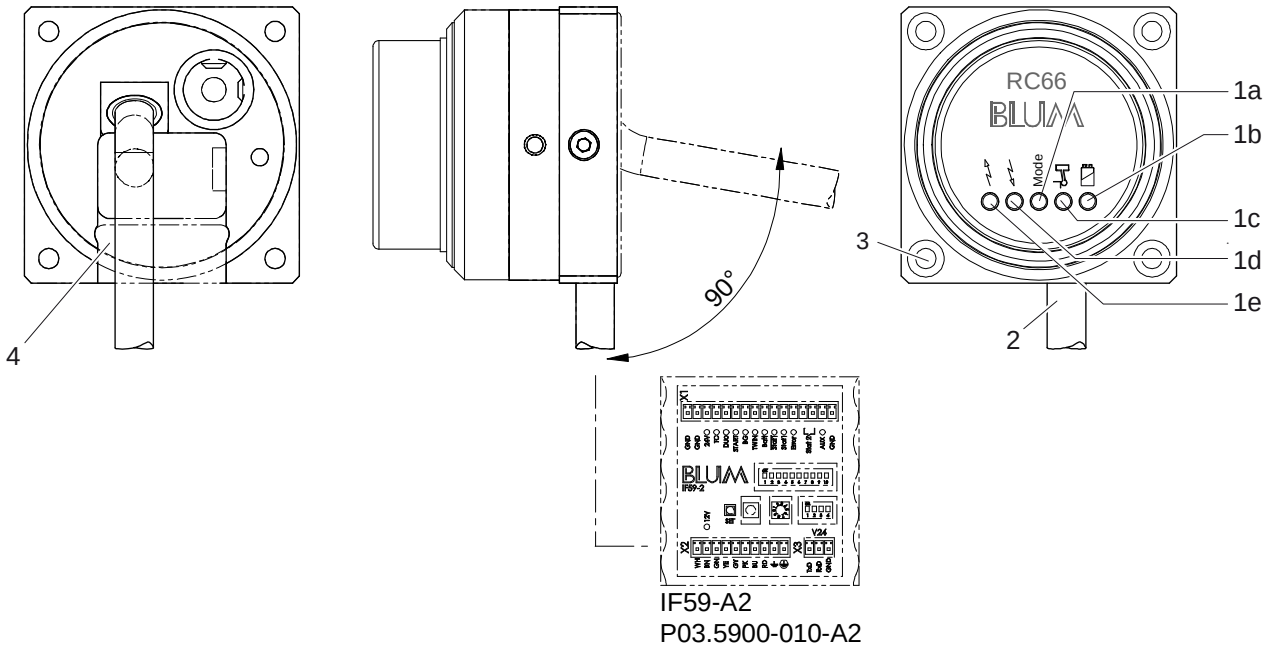


Fig. 2.1

(1a) LED mode
(1b) LED battery
(1c) LED status
(1d) LED receive
(1e) LED transmit

(2) cable
(3) for mounting screws
(4) seal insert + O-Ring (at horizontal cable outgoing)

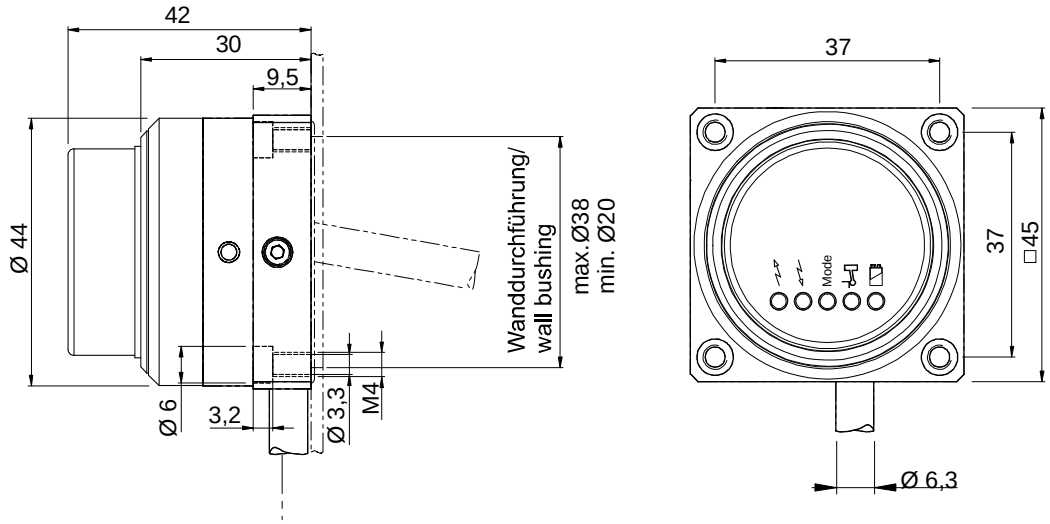
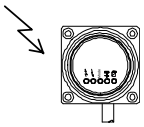
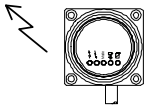


Fig. 2.2

2.2 Display Elements

LED	LED colour	function
MODE (1a)	BU DG	Standby
	BU	Mode TC1 ... TC6
	VT	Pairing procedure
Battery (1b) 	GN	Battery o.k.
	RD	Battery low
Status (1c) 	GN	Initial position
	RD	Probe deflected
Receive (1d) 	off	No reception
	GN	Reception o.k.
Transmit (1e) 	GN	Send command

Tab. 2.1

2.3 Technical Data

Protection class	IP68
Power supply	12 V DC / 100 mA via IF59-A2
Weight	600 g
Signal transmisson	Radio transmission
Frequency band:	2,400 – 2,4835 GHz
Transmission power	0 dBm
Transmitter / receiver range	15 m, see chap. 2.4
Minimum bending radius	60 mm (application: flexible)
Max. cable length	50 m
Storage temperature	-20 °C ... +70 °C
Operating temperature	+5 °C ... +50 °C

Tab. 2.2

2.4 Area of Work

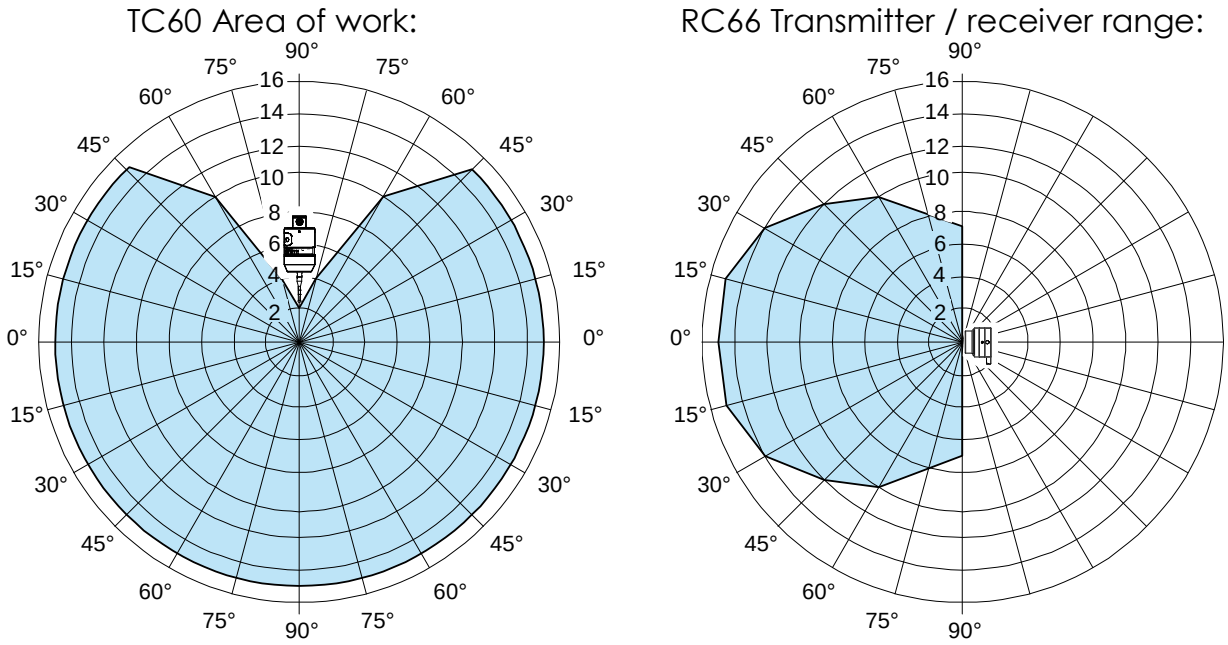


Fig. 2.3

2.5 Complete System

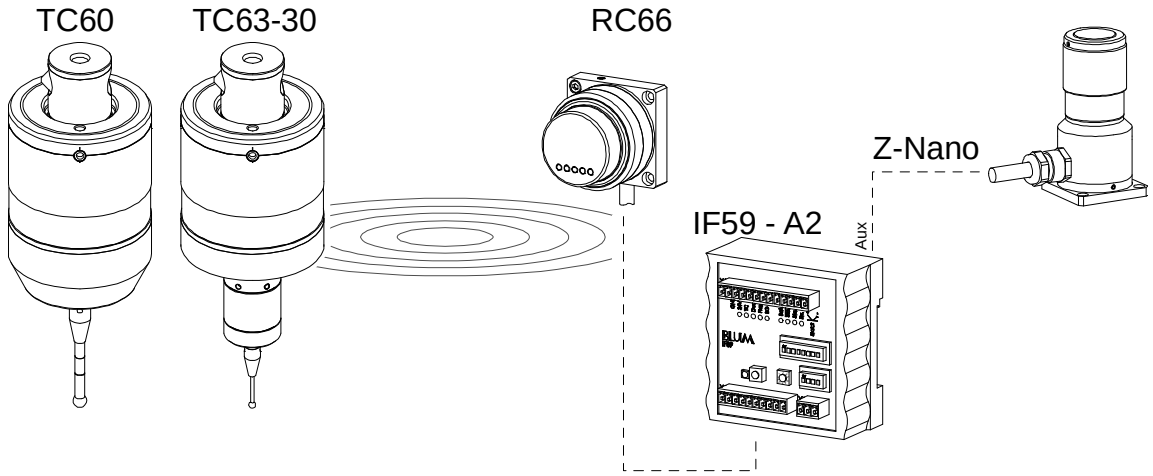


Fig. 2.4

⇒ Switch ON/OFF via radio signal
⇒ Signal transmission for **TC** series

3. Mechanical Installation

CAUTION 	**Risk of short-circuit** Damage by chips Never install cables and hoses without protection. Cables and hoses must always be protected against chips (protective hose, protection spring, cover etc.).
CAUTION 	**Risk of short-circuit** Damage of the cable by sharp edges Pls. deburr the sharp edges on the cable bushing and mount edge protection!
CAUTION 	• The system should be placed protected from coolant and chips. • Distance between probe and receiver: Pay attention to chap. 2.4 • Keep distance to other radio systems

3.1 Mounting Variants

Cable outgoing horizontal:

☞ **Pollution of the system**
Mount gasket (9a) and O-ring (9b)

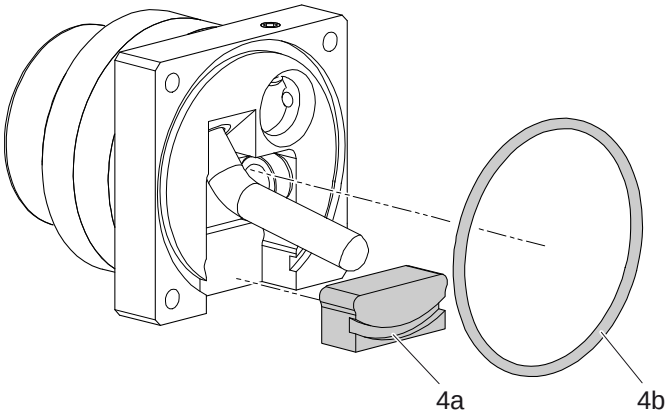


Fig. 3.1

Cable outgoing vertical:

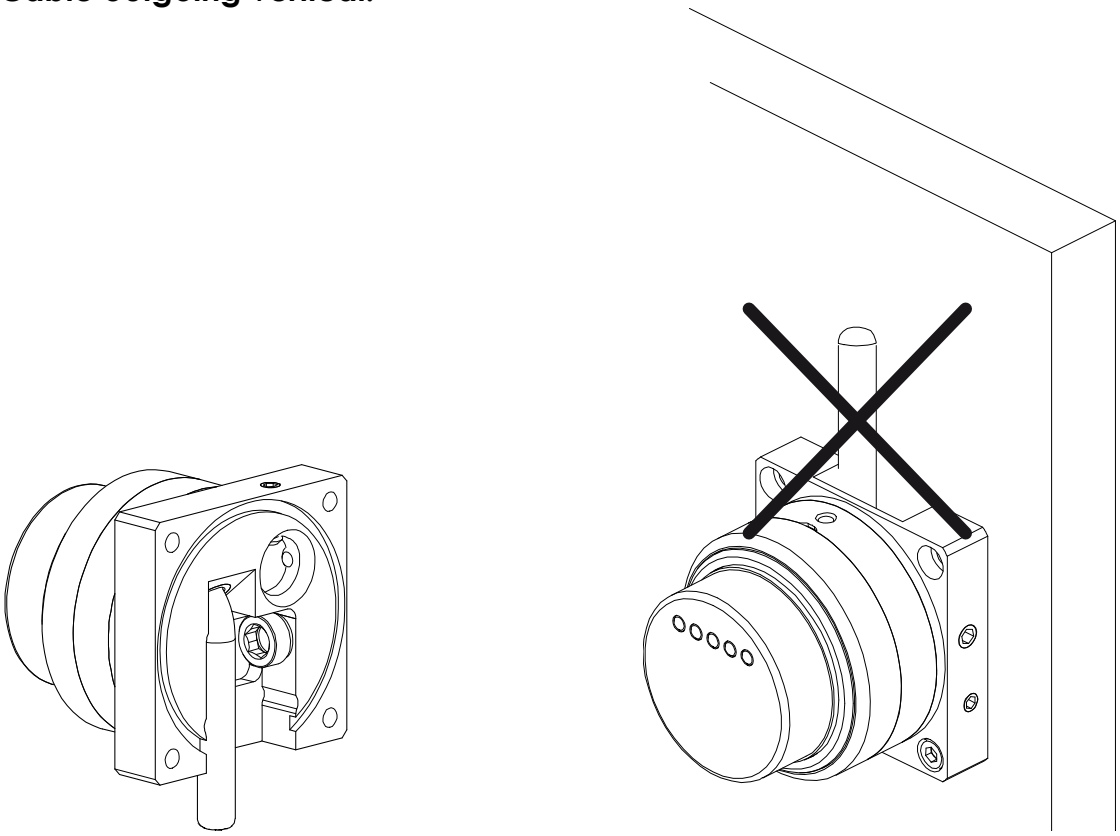


Fig. 3.2

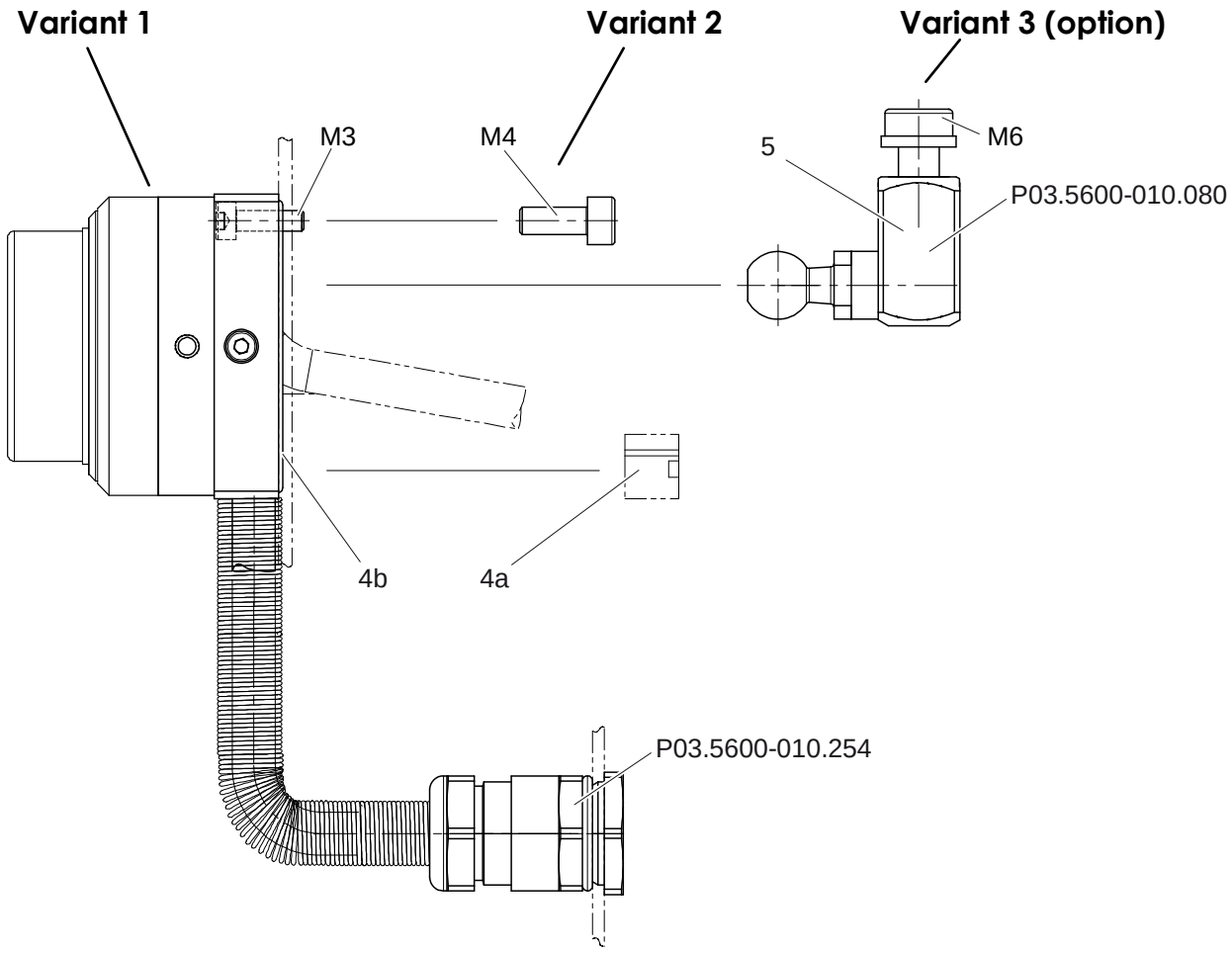


Fig. 3.3

(4a) seal insert
(4b) O-Ring
(5) universal holder (option)

Tightening torque:
DIN912 M3x10: M_d = 1,3 Nm (max.)
DIN912 M4x10: M_d = 3,0 Nm (max.)
DIN912 M6x12: M_d = 10,5 Nm (max.)

Drilling template (scope of delivery)

Variant 3
Option Universal Holder

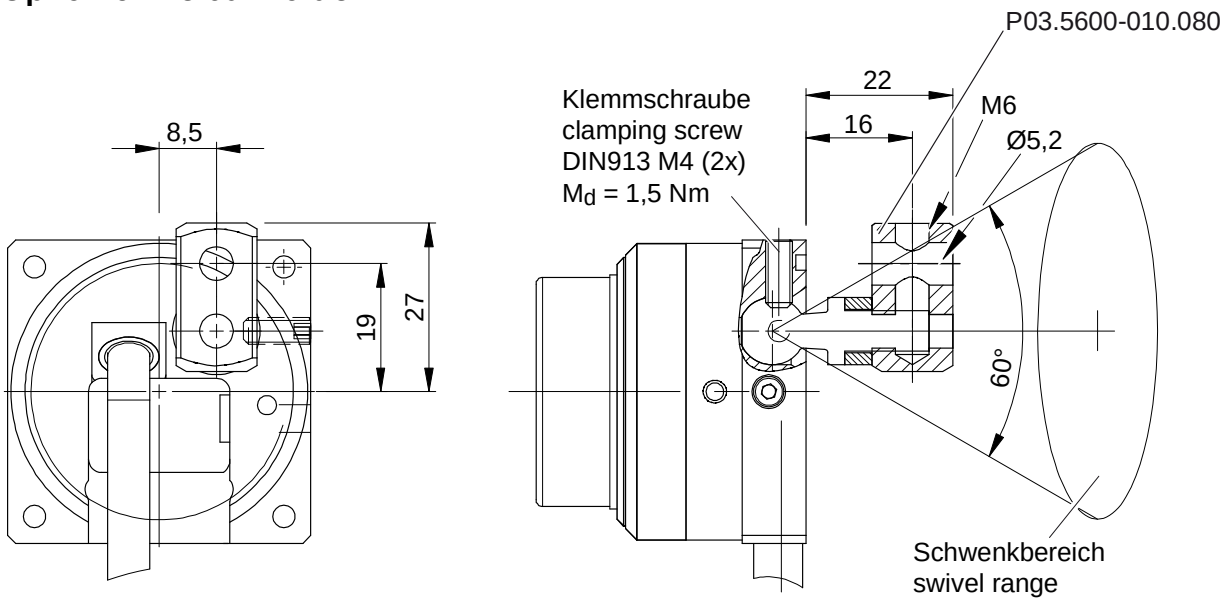
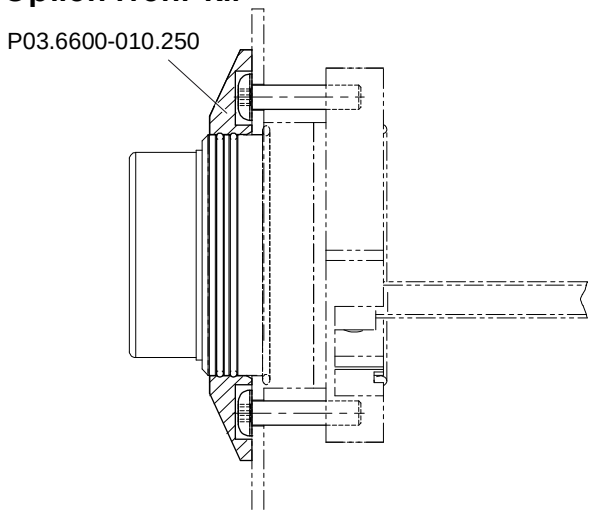


Fig. 3.4

Variant 4:
Option Front-Kit



Pls. refer to the appropriate data sheet

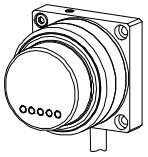
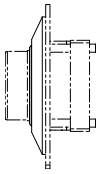
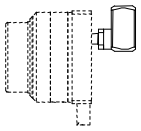
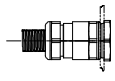
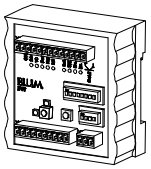
4. Electrical Connection

See installation instructions IF59-A2

5. Maintenance

The receiver needs minimum maintenance only.
Keep the receiver clean and free from chips.

6. Order Numbers

Radio receiver RC66				
- Cable length (8 wires)	L = 10 m	PUR	P03.6600-010-A2-10	
	L = 20 m	PUR	P03.6600-010-A2-20	
Front-kit			P03.6600-010.250	
Universal holder			P03.5600-010.080	
Heavy Duty Kit Protection spring 1m incl. screwing			P03.5600-010.254	
Interface IF59-A2			P03.5900-010-A2	

7. Radio Approval

Area:	Radio Approval:	Regulations:
Europe:	CE 0681	EN 300 328 V1.4.1, EN 301 489-17 V1.2.1, EN 60950-1:2001
Japan:	R 202WW10568412	

"This device has been granted a designation number by Ministry of Internal Affairs and Communications under „Ordinance concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment (特定無線設備の技術基準適合証明等に関する規則)" Article 2-1-19.

USA: FCC ID: ZCQRCA FCC Part 15

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada: IC:9570A-RCA

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device
must accept any interference, including interference that may cause undesired operation of the device.
This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with IC Canada RF radiation exposure limits set forth for an uncontrolled environment as per RSS-102 Issue 4.

EC Declaration of Incorporation

acc. to the EC Machine Regulations 2006/42/EC in the edition from 17 May.2006

We hereby confirm that the subsequently following components are defined for the installation into other machines and that they are in accordance with the following safety requirements of the EC regulations.

Commissioning is not allowed until it is ascertained that the machines, in which the components are installed, are in accordance with the EC regulations 2006/42/EC.

The relevant technical information is compiled acc. to annex VII part B and, where appropriate, we will send the information concerning the components to the different countries. The industrial property rights of Blum-Novotest GmbH will remain unaffected.

Component name:	P03.6600 Radio receiver
Safety requirements 2006/42/EG, Annex I	1.5.1
Applied standards: EC-Regulations:	2004/108/EG 2006/95/EG 1999/5/EG
Applied harmonized standards:	EN61000-6 EN60204-1 EN ISO 12100 EN 300 328 EN 301 489-17 EN 60950-1:2001
Applied national standards:	DIN VDE 0100 DIN VDE 0113
Authorised presentative for technical information:	Blum-Novotest GmbH Kaufstr. 14 88287 Gruenkraut, Germany

Service Order

Please fill out completely this repair order and attach it to the system. This will save you and us costs due to time-consuming inquiries and ensures a quick repair.

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Department:	
Contact:	
Address:	
Phone:	
Fax:	
Email:	
Probe Type, Serial No.:	
Machine Type, Manufacturer:	
Description of Defect:	

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