Quick-start guide
H-5312-8502-01-B

RENISHAW
apply innovation™

RMP600

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CAUTION: The RMP600 has a glass window. Handle with care if broken to avoid injury.

Part number: H-5312-8502-01-B

Issued: 07.2007

Patents

Features of the RMP600, and other similar Renishaw probes, are subject to the following patents and/or patent applications:

CN 1732488A
CN 1771425A

EP 0337669
EP 0390342
EP 0652413
EP 0695926
EP 1185838
EP 1373995
EP 1425550
EP 1457786
EP 1477767
EP 1477768
EP 1576560
EP 1613921
EP 1701234
EP 1734426
EP 872787 B

JP 2,945,709
JP 2,994,401
JP 2003-526,170
JP 2004-279,417
JP 2004-522,961
JP 2005-502,035
JP 2006/522931
JP 2006-313567
JP 2006-511860
JP 3,126,797

US 2004-0178771
US 2006/0215614A1
US 5,040,931
US 5,150,529
US 5,279,042
US 5,669,151
US 6,301,796 B1
US 6,776,344 B2
US 6,941,671 B2
US 7145468B2

WO 2006/134360
WO 2007/028964
WO 2006/100508
WO 2006/120403

CE

EC DECLARATION OF CONFORMITY

Renishaw plc declares that the product:

Name	**Description**
RMP600	Radio machine probe

has been manufactured in conformity with the following standards:

61010-1:2001

EN 301 489-17

EN 300 328

EN 50371

and that it complies with the requirements of the following directives (as amended):

1999/5/EC - R&TTE Radio and telecommunications terminal equipment

The above information is summarised from the full EC Declaration of Conformity. A copy is available from Renishaw on request.

FCC

Information to user (FCC Section 15.19)

This device complies with Part 15 of the FCC rules. Operation is subject to the following 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.

Information to user (FCC Section 15.21)

The user is cautioned that any changes or modifications not expressly approved by Renishaw plc or authorised representative could void the user's authority to operate the equipment.

Battery specification

The RMP600 will operate with either 2 x AA alkaline batteries or 2 x lithium thionyl chloride batteries (of the types approved and listed below).

	AA alkaline x 2	Lithium thionyl chloride x 2	
	✔	**RS:** 596-602, 201-9438 **Radio shack:** 23-037 **Saft:** LS 14500 **Sonnenschein:** SL-760/S **Tadrian:** TL-5903/S, TL-2100/S **Xeno:** XL-060F	✔

Note: Maximum battery life is achieved when lithium thionyl chloride batteries are used.

Fitting the stylus

1

2

M-5000-3707

Installing the batteries

1

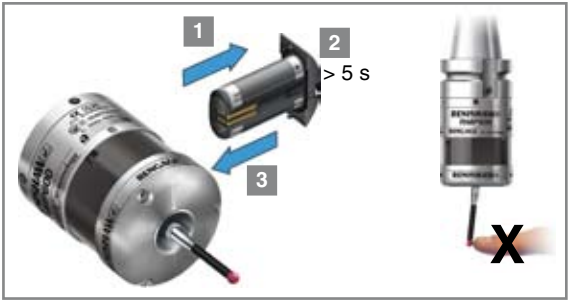
2

✶ Take care not to short the battery contacts as this may be a fire hazard. Ensure the contact strips are located securely.

3

4

Reviewing the probe's settings



Key to symbols

- LED short flash
- LED long flash

LED check

Switch on method

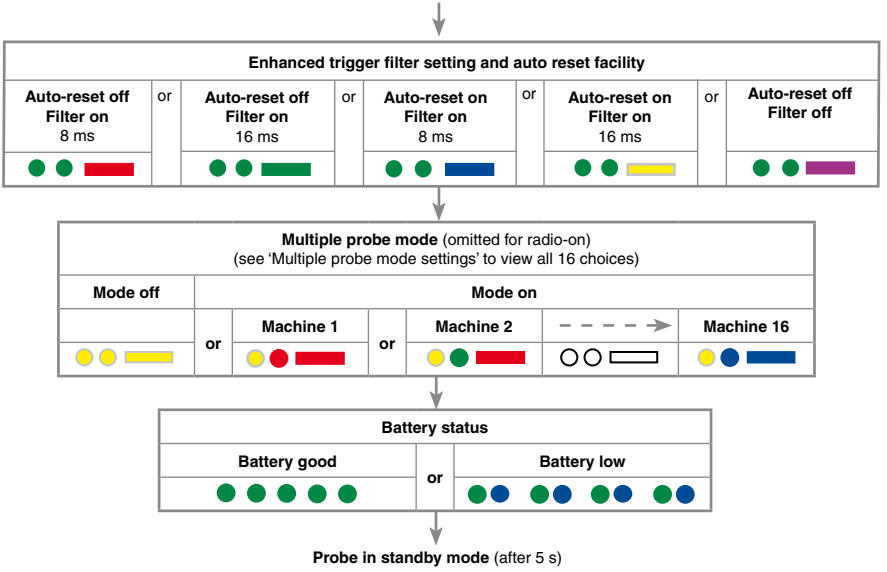
Radio on (omitted if multiple probe mode was selected)	or	Shank on	or	Spin on

Switch off method (omitted for shank on)

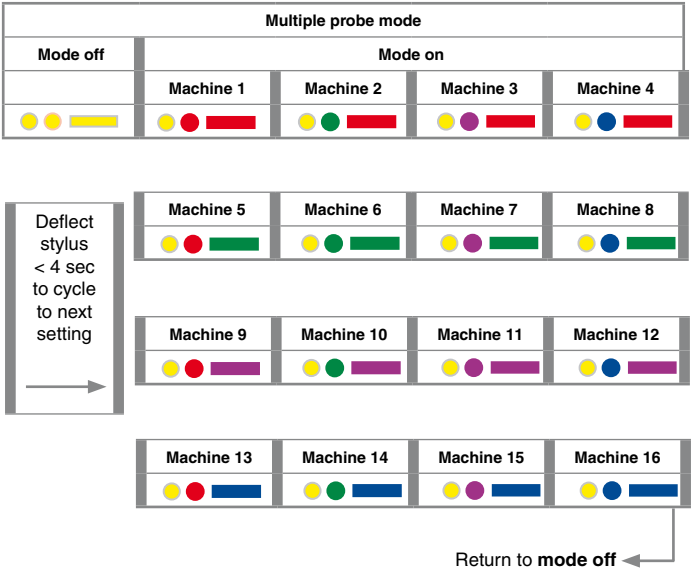
Radio off or Spin off	or	Short time out 12 s	or	Medium time out 33 s	or	Long time out 134 s

continued on next page

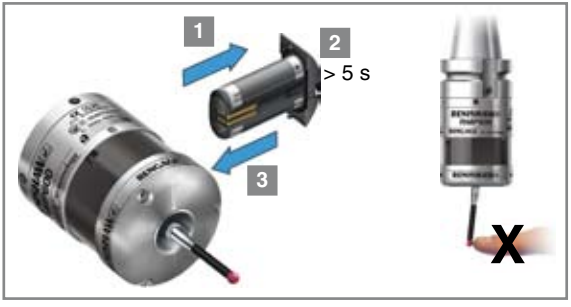
Reviewing the probe's settings



Multiple probe mode settings



Placing the probe into configuration mode



LED check

Deflect the stylus and hold deflected until after the battery status has been displayed at the end of the review sequence.

Key to the symbols	
●	LED short flash.
▬	LED long flash.
⇨	Deflect the stylus < 4 seconds to move to the next menu option.
⇩	Deflect the stylus > 4 seconds to move to the next menu.
⇩	To exit , leave the stylus untouched for >20 seconds.

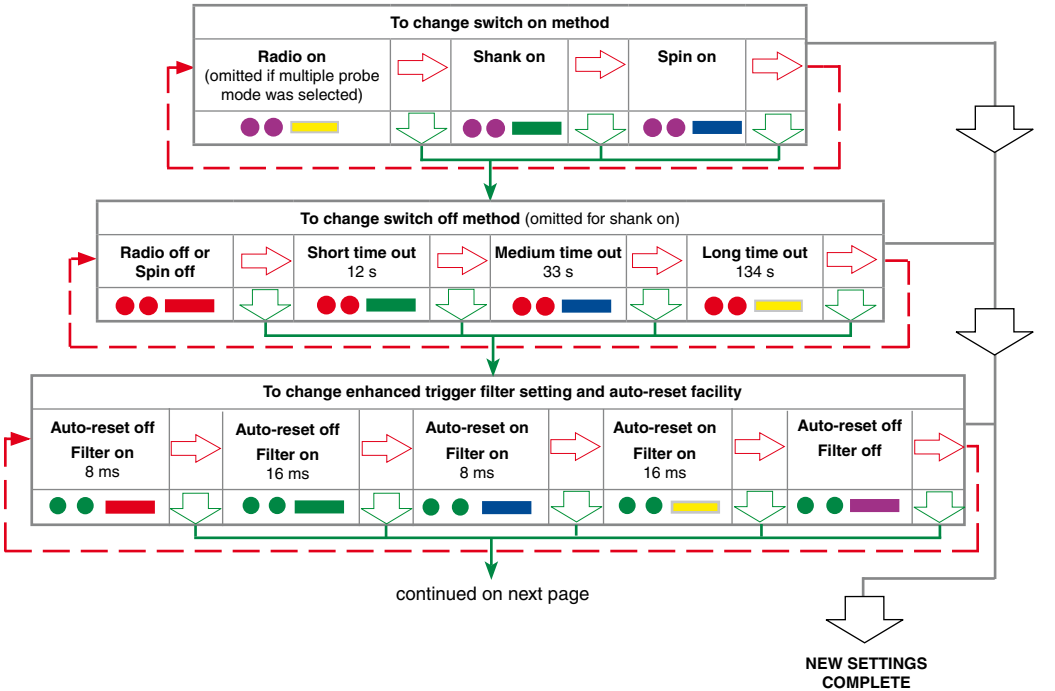
Battery status

Battery good	or	Battery low
● ● ● ● ●		●● ●● ●● ●●

To change the switch off method

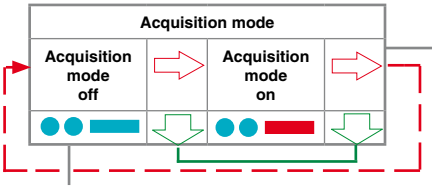
go to the next page

Changing the probe settings

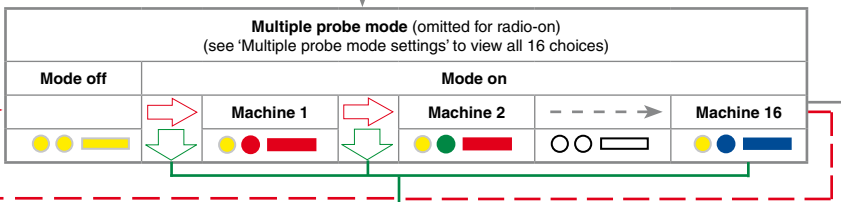


Changing the probe settings

Note: Once acquisition has been successful, the RMP600 will revert to 'Aquisition mode off'.

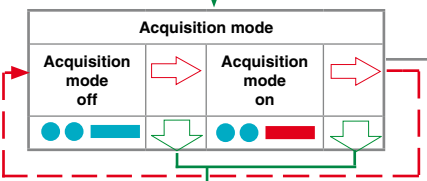


Cease triggering here, unless the multiple probe mode is required
in which case deflect stylus > 4 seconds



Note: If no changes are made in multiple probe mode, then deflecting the stylus for more than 4 seconds will return the probe settings to **'To change switch-on method'**

Note: To partner a RMP600 with a RMI please see page 12.

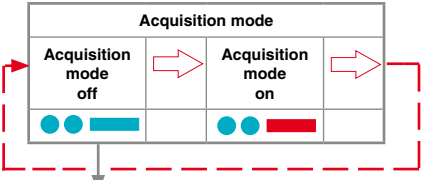


Return to **'To change switch-on method'**

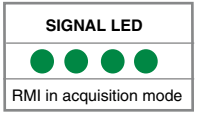
NEW SETTINGS COMPLETE

Note: Unless the RMP600 is in 'Multiple probe' mode, it will be necessary to partner it with the RMI before use.

Note: In configuration mode, configure settings as required and then enter the 'Acquisition mode' menu. Select 'Acquisition mode off'.



Continuously deflect stylus whilst switching on the RMI.



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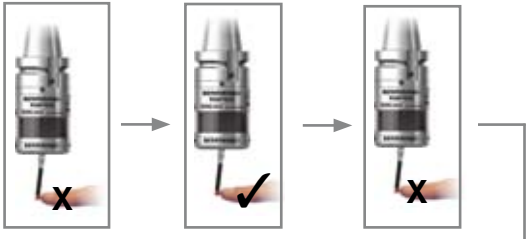
RMP600 - RMI partnership

Release and deflect the stylus to select ‘Acquisition mode on’.

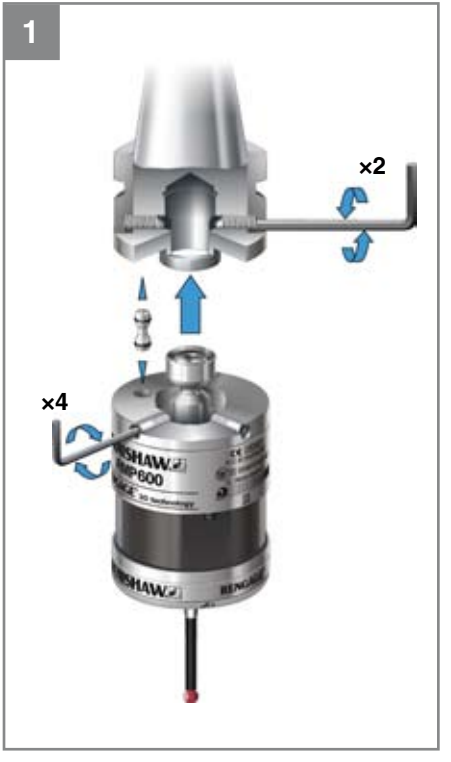


SIGNAL LED

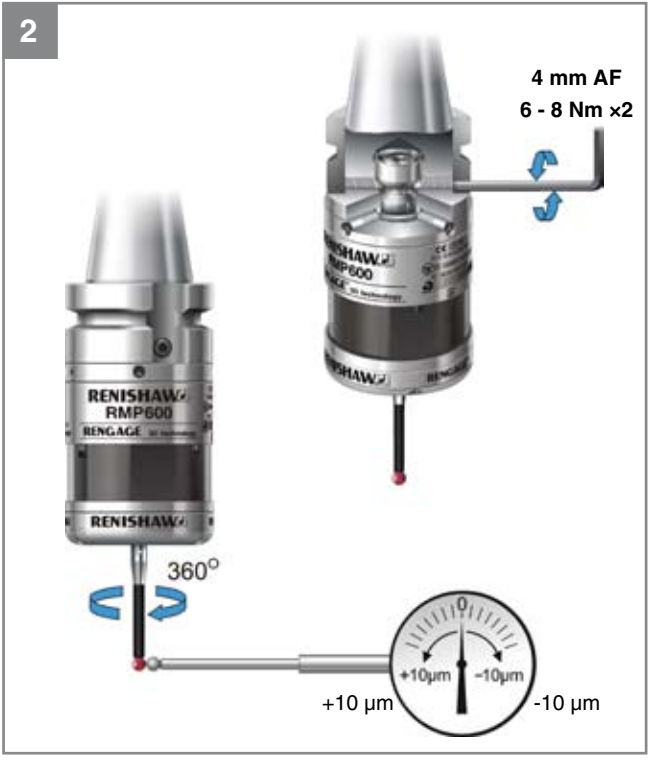
New partner RMP acquired

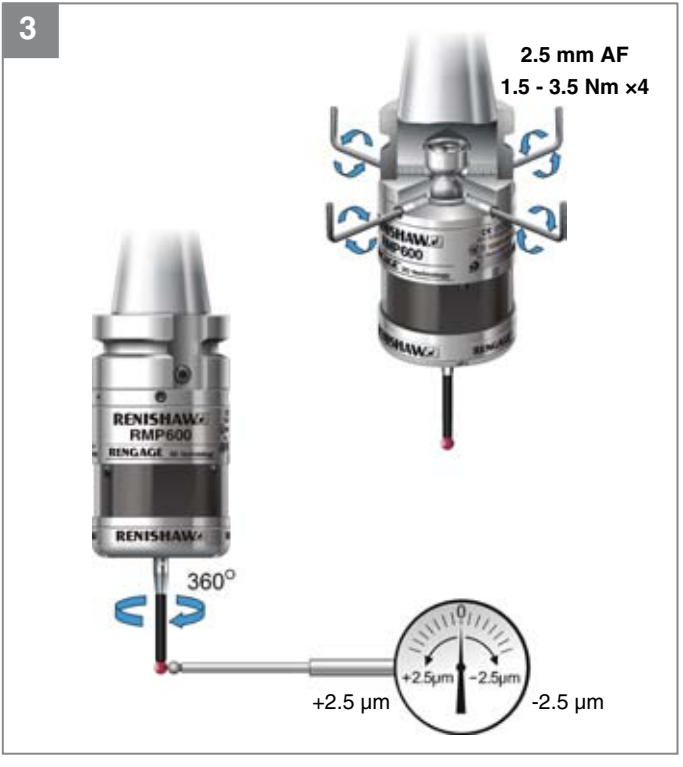
Probe in standby and system ready for use.

Mounting the probe to a shank



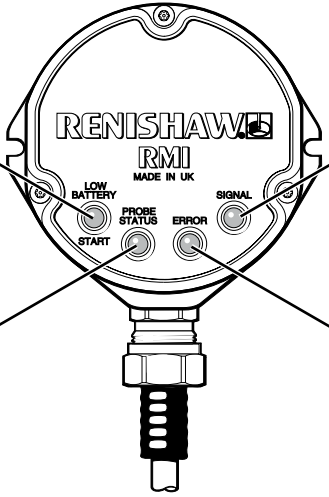
Stylus on-centre adjustment


2
4 mm AF
6 - 8 Nm ×2
RENISHAW
RMP600
RENGAGE
RENISHAW
360°
+10µm
-10µm
+10 µm
-10 µm


3
2.5 mm AF
1.5 - 3.5 Nm ×4
RENISHAW
RMP600
RENGAGE
RENISHAW
360°
+2.5 µm
-2.5 µm
+2.5µm
-2.5µm
0

RMI visual diagnostics

LOW BATTERY/START LED	
●	Battery low
●	M code start/stop in progress
●	Battery low and M code start/stop in progress
OFF	Battery is ok and no M code start/stop in progress



SIGNAL LED	
●	Signal excellent
●	Signal good
●	Signal poor
OFF	No signal
● ● ●	In acquisition mode
● ● ● ●	New partner RMP acquired

PROBE STATUS LED	
●	●
Probe triggered	Probe seated

ERROR LED	
●	OFF
Error	No error

Cleaning

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