Quick-start guide
H-6570-8500-01-A

RENISHAW
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RMP400

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English (EN)
Deutsch (DE)
Español (ES)
Français (FR)
Italiano (IT)
日本語 (JA)

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Polski (PL)
Česky (CS)
Русский (RU)
中文（繁體）(ZH-TW)
中文（简体）(ZH)
한국어 (KO)

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Issued: xx.xxxx

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EN	Publications for this product are available by visiting **www.renishaw.com/rmp400**.
DE	Weitere Informationen zu diesem Produkt sind unter folgendem Link **www.renishaw.de/rmp400** abrufbar.
ES	Las publicaciones para este producto están disponibles a través de **www.renishaw.es/rmp400**.
FR	Les documentations pour ce produit sont disponibles en visitant le site **www.renishaw.fr/rmp400**.
IT	La documentazione per questo prodotto è disponibile visitando il sito **www.renishaw.it/rmp400**.
日本語	本製品に関する資料は、**www.renishaw.jp/rmp400** からダウンロードいただけます。

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PL	Publikacje dotyczące tego produktu są dostępne w witrynie **www.renishaw.pl/rmp400**.
CS	Dokumentaci k produktu najdete na **www.renishaw.cz/rmp400**.
RU	Документация по данному изделию доступна на сайте **www.renishaw.ru/rmp400**.
中文 (繁體)	請訪問雷尼紹網站以獲得此產品的的相關文件檔案: **www.renishaw.com.tw/rmp400** 。
中文 (简体)	请访问雷尼绍网站以获得此产品的相关文档：**www.renishaw.com.cn/rmp400**。
한국어	이 제품의 관련 자료는 **www.renishaw.co.kr/rmp400**에서 확인 가능 합니다.

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Radio approvals have not been confirmed yet, so this and the next page are NOT applicable at the moment

Radio approvals

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Radio approvals

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English (EN)

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EU declaration of conformity

Renishaw plc declares that the RMP400 complies with the applicable standards and regulations.

Contact Renishaw plc or visit **www.renishaw.com/mtpdoc** for the full EU declaration of conformity.

WEEE directive

The use of this symbol on Renishaw products and/or accompanying documentation indicates that the product should not be mixed with general household waste upon disposal. It is the responsibility of the end user to dispose of this product at a designated collection point for waste electrical and electronic equipment (WEEE) to enable reuse or recycling. Correct disposal of this product will help to save valuable resources and prevent potential negative effects on the environment. For more information, please contact your local waste disposal service or Renishaw distributor.

FCC Information to user (USA only)

47 CFR Section 15.19

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.

47 CFR 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.

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Safety

The RMP400 has a glass window. Handle with care if broken to avoid injury.

In all applications involving the use of machine tools, eye protection is recommended.

Information to the machine supplier/installer

It is the machine supplier's responsibility to ensure that the user is made aware of any hazards involved during operation, including those mentioned in Renishaw product literature, and to ensure that adequate guards and safety interlocks are provided.

Under certain circumstances, the probe signal may falsely indicate a probe seated condition. Do not rely on probe signals to halt the movement of the machine.

Battery safety

The RMP400 may be supplied or used with non-rechargeable lithium-thionyl chloride batteries.

- Do not attempt to recharge the batteries.
- Please dispose of waste batteries in accordance with your local environmental and safety laws.
- Replace the batteries only with the specified type.
- Ensure that all batteries are inserted with the correct polarity.
- Do not store batteries in direct sunlight.
- Do not heat or dispose of batteries in a fire.
- Do not short-circuit or force discharge the batteries.
- Do not disassemble, pierce, deform or apply excessive pressure to the batteries.
- Do not swallow the batteries.
- Keep the batteries out of the reach of children.
- Do not get batteries wet.
- If a battery is damaged, handle it with care to avoid contact with electrolyte.

Lithium batteries are classified as dangerous goods and strict controls apply to their shipment by air. To reduce the risk of shipment delays, if you need to return the RMP400 to Renishaw for any reason, do not return any batteries.

Equipment operation

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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EN	**Configuring the probe** The following sections describe the process of reviewing and configuring the probe settings. The Trigger Logic™ app simplifies this process with clear, interactive instructions and informative videos. Download on the App Store · GET IT ON Google Play
DE	**Konfigurieren des Messtasters** In den folgenden Abschnitten werden die Prüfung und Konfiguration der Messtastereinstellungen beschrieben. Die Trigger Logic™ App vereinfacht den Vorgang mit deutlichen, interaktiven Anweisungen und informativen Videos. Laden im App Store · JETZT BEI Google Play
ES	**Configuración de la sonda** Las siguientes secciones describen el proceso de revisión y configuración de los ajustes de la sonda. La aplicación Trigger Logic™ simplifica este proceso con instrucciones claras e interactivas, así como vídeos informativos. Consíguelo en el App Store · DISPONIBLE EN Google Play

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FR	**Configuration du palpeur** Les chapitres qui suivent décrivent le processus de programmation et de configuration des paramètres de palpage. L'application Trigger Logic™ simplifie le processus au travers d'instructions claires et interactives et avec des vidéos d'information. Télécharger dans l'App Store DISPONIBLE SUR Google Play
IT	**Configurazione della sonda** Le seguenti sezioni descrivono il processo di revisione e configurazione delle impostazioni della sonda. L'applicazione Trigger Logic™ semplifica questo processo con istruzioni chiare, interattive e video esplicativi. Scarica su App Store DISPONIBILE SU Google Play
日本語	**プローブの設定** 以降のセクションにて、プローブ設定の確認方法および設定方法について説明します。明瞭で対話型の指示とわかりやすいビデオを使用した Trigger Logic™ アプリを使えば、本工程を簡よりシンプルなものにできます。 App Store からダウンロード Google Play で手に入れよう

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Batteries	½ AA (3.6 V) lithium-thionyl chloride × 2
Batterien	½ AA (3,6 V) Lithium-Thionylchlorid × 2
Baterías	2 × Litio-cloruro de tionilo de tamaño ½ AA (3,6 V)
Piles	2 piles ½ AA chlorure de lithium thionyle (3,6 V)
Batterie	Litio Cloruro di Tionile ½ AA (3,6 V) × 2
バッテリー	½AAサイズの塩化チオニル・リチウム電池 (3.6 V) × 2 本

✓

Ecocel	EB 1426
Saft	LS 14250 C, LS 14250
Tadiran	SL-750
Xeno	XL-050F

✗

Dubilier	SB-AA02
Maxell	ER3S
Sanyo	CR 14250 SE
Tadiran	SL-350, SL-550, TL-4902, TL-5902, TL-2150, TL-5101
Varta	CR ½ AA

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Fitting the stylus

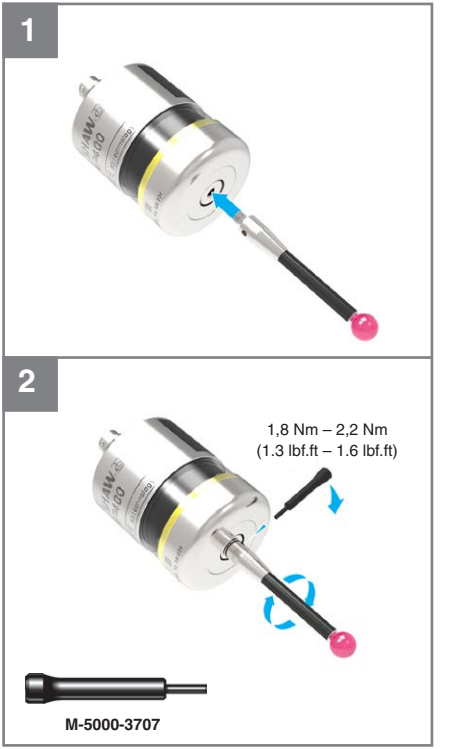
Tastereinsatz montieren

Colocación del palpador

Montage du stylet

Installazione dello stilo

スタイラスの取り付け



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Attention

Please remove the battery isolation device from the battery compartment before use.
✶ Take care not to short the battery contacts.

Actung

Bitte vor Gebrauch die Batterie-Isolierung aus dem Batteriefach entfernen.
✶Die Batteriekontakte dürfen nicht kurzgeschlossen werden.

Precaución

Por favor, retire el dispositivo de aislamiento de las baterías del compartimento de las mismas antes del uso.
✶Tenga cuidado para no hacer cortocircuito en los contactos de la batería.

Attention

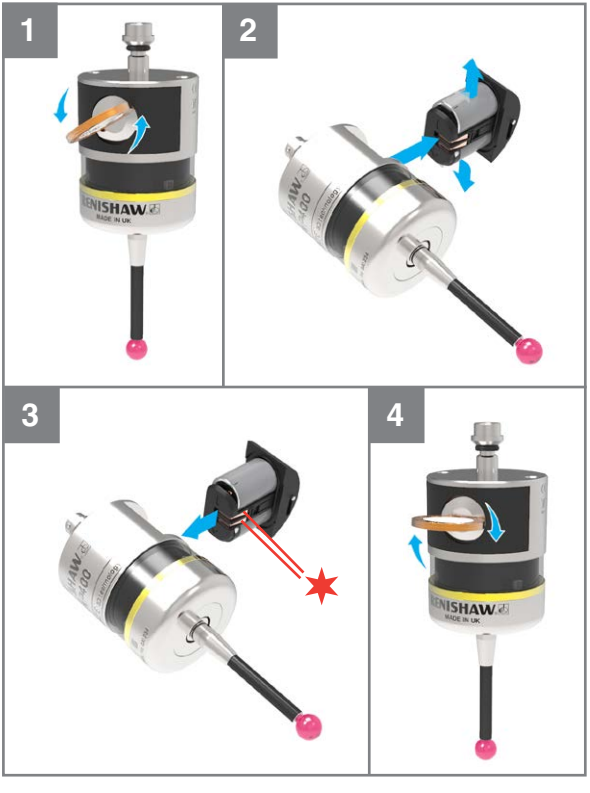
Merci d'enlever le dispositif d'isolement de la pile du compartiment de la pile avant utilisation.
✶Prenez soin de ne pas mettre les piles en court circuit.

Attenzione

Rimuovere la protezione di isolamento dal vano batteria prima dell'uso.
✶Fare attenzione a non cortocircuitare i contatti della batteria.

注意

ご使用になる前に、電池ケース内から電極保護材を取り除いて下さい。
✶ 電池の接点を短絡させないように気をつけて下さい。



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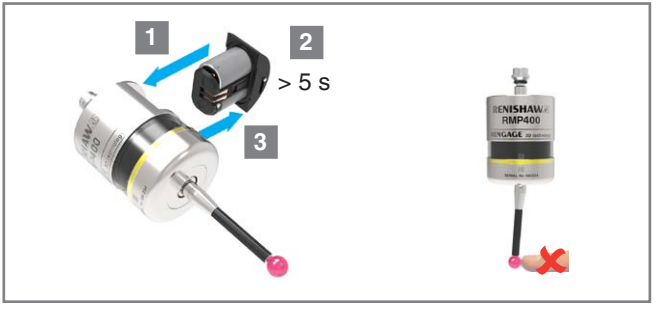

Key to the symbols	
●	LED short flash
▬	LED long flash

LED check

● ● ●

Switch-on method
(omitted if **"Multiple probe mode"** was selected)

Radio on	or	Spin on
● ● ▭		● ● ▬

Switch-off method

Radio off or Spin off	or	Short timeout 12 s	or	Medium timeout 33 s	or	Long timeout 134 s
● ● ▬		● ● ▬		● ● ▬		● ● ▭

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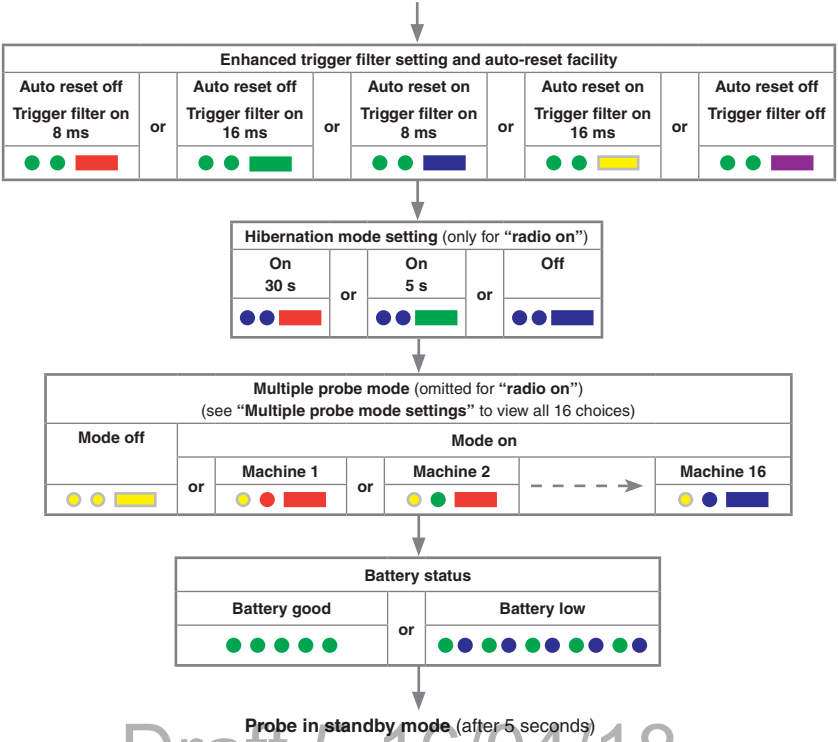

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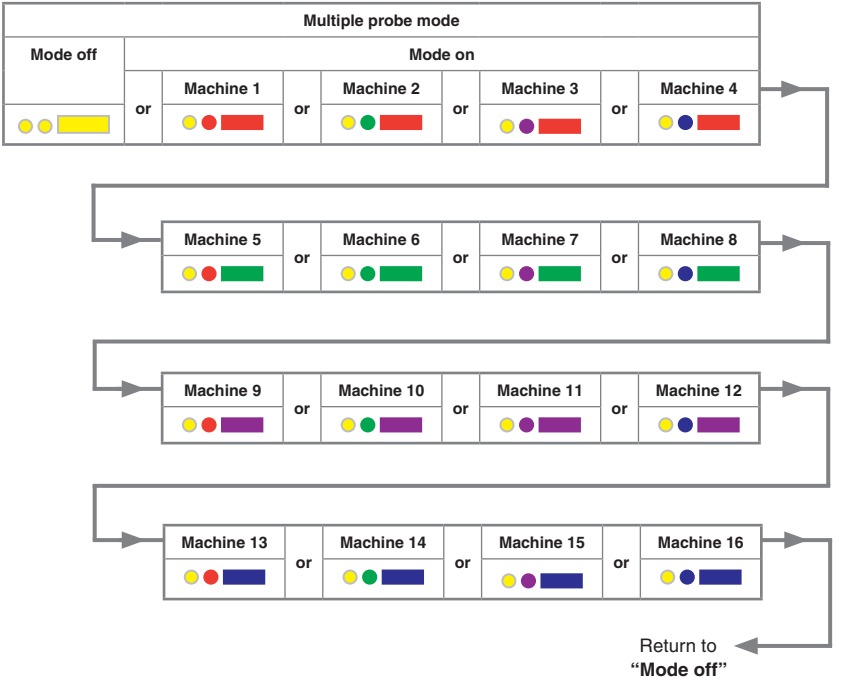
Multiple probe mode settings



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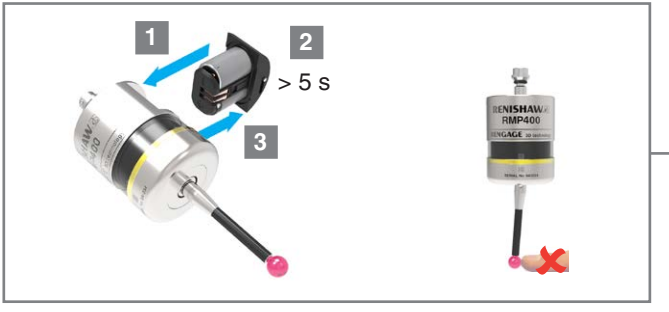
Probe partnering function



LED check

All probe settings will be shown, ending with "**Probe status**" being displayed.

Probe status (seated)		
Battery good	or	Battery low
● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ● ● ● ● ● ● ● ●

Key to the symbols	
●	LED short flash
▬	LED long flash
⇨	Deflect the stylus for less than 4 seconds to move to the next menu option.
↓	To exit, leave the stylus untouched for more than 120 seconds.
↓	Acquisition successful. Probe is now in standby.

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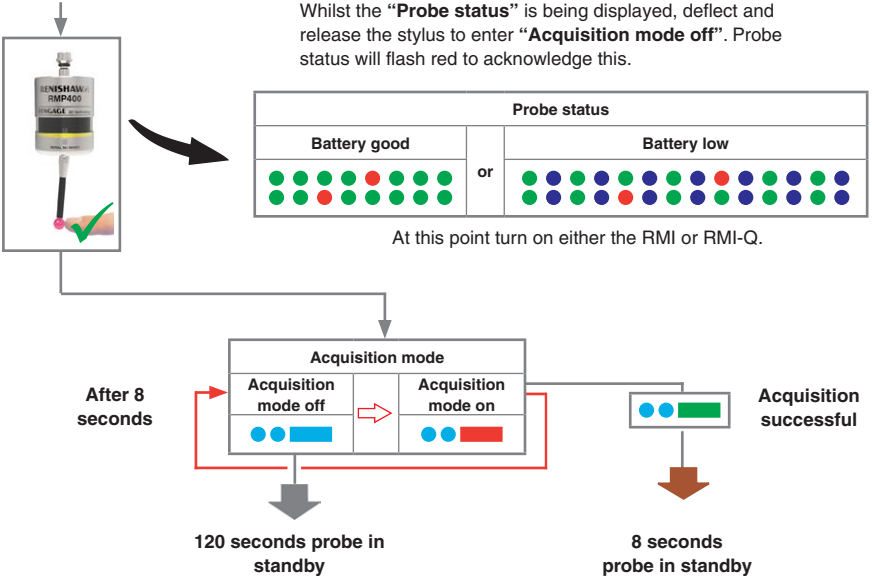
Probe partnering function



If acquisition is unsuccessful **"Acquisition mode off"** will be displayed again after 8 seconds.
Deflect the stylus for less than 4 seconds to select **"Acquisition mode on"** again.

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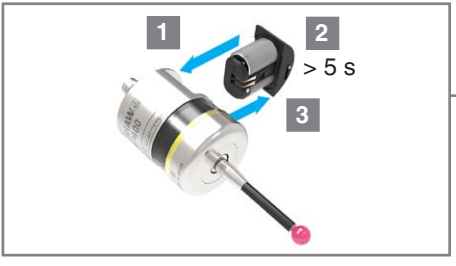
Placing the probe in configuration mode



LED check

Deflect the stylus and hold it 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 for less than 4 seconds to move to the next menu option.
⇩	Deflect the stylus for more than 4 seconds to move to the next menu.
⬇	To exit, leave the stylus untouched for more than 120 seconds.
⇩	To exit, leave the stylus untouched for more than 20 seconds.

Battery status

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

To acquire the probe and/or change the probe settings, go to the next page.

CAUTION: Do not remove the batteries whilst in configuration mode. To exit, leave the stylus untouched for more than 20 seconds.

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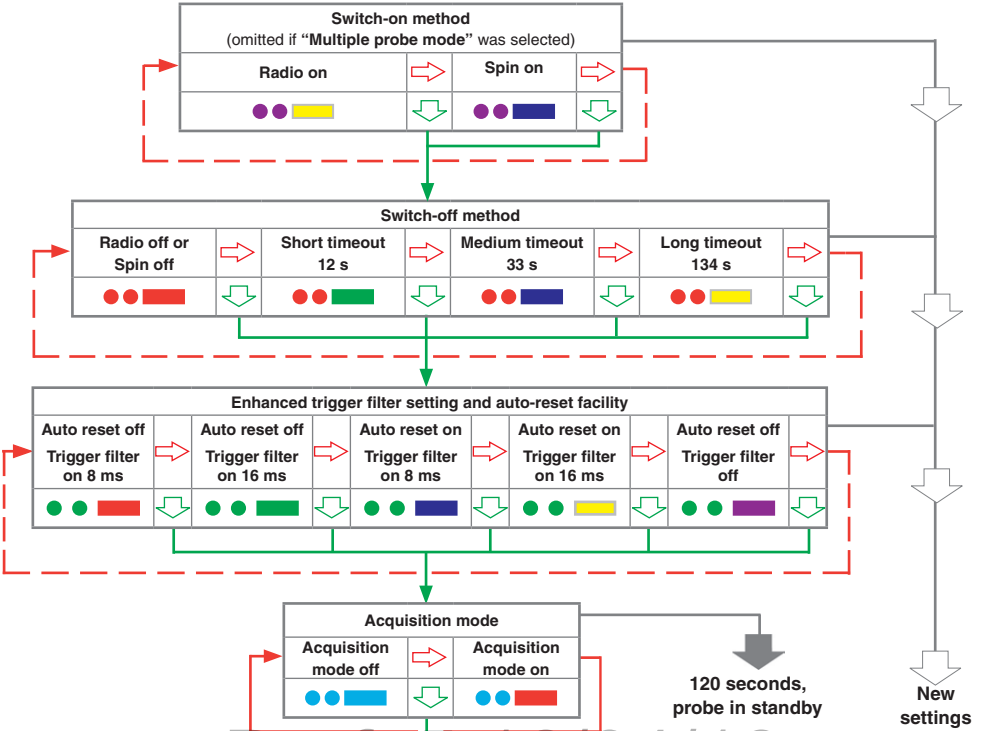

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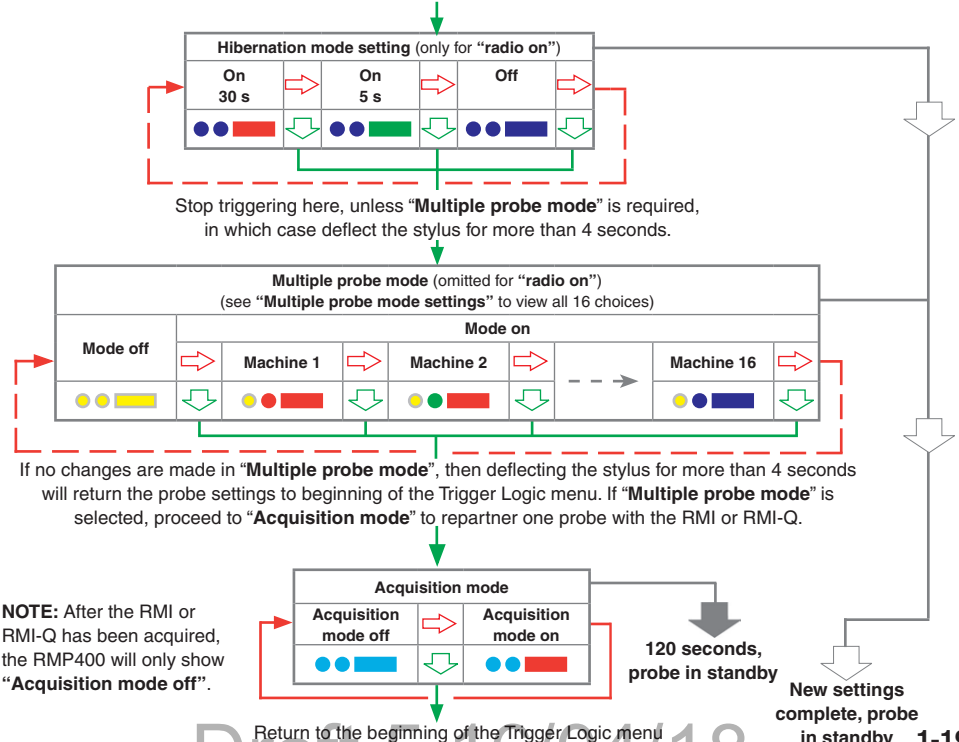

NOTE: After the RMI or RMI-Q has been acquired, the RMP400 will only show **"Acquisition mode off"**.

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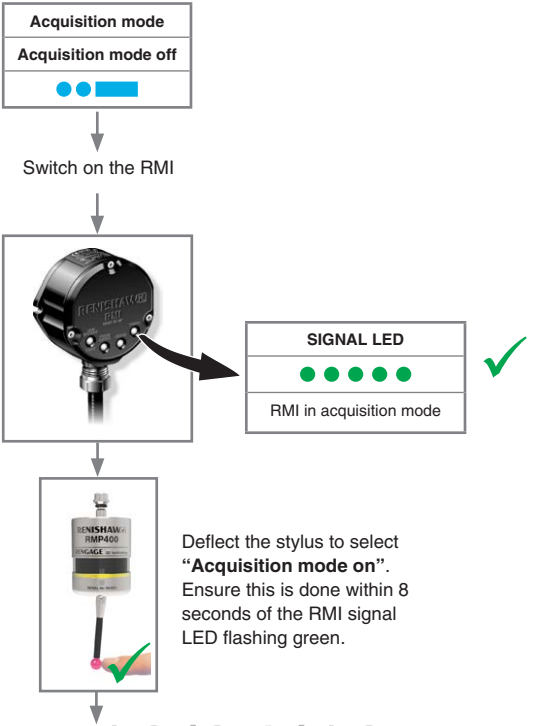

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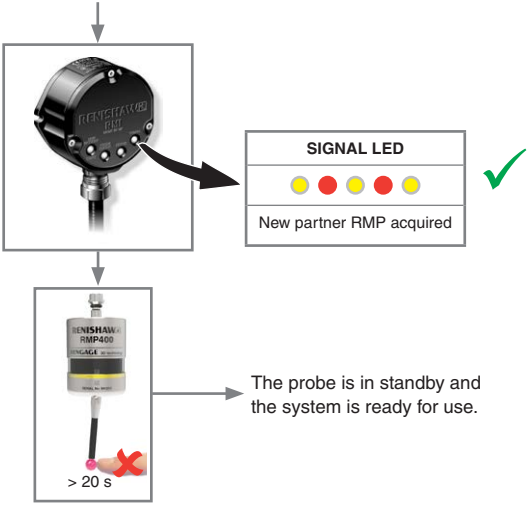

NOTE: Please refer to the *RMI installation guide* (Renishaw part no. H-4113-8554) when partnering the RMP400.

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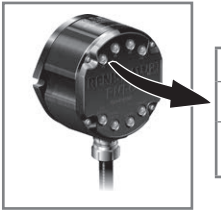
Acquisition mode

Acquisition mode off

Switch on the RMI-Q



SYSTEM STATUS LED

RMI-Q in acquisition mode with empty probe location

or

SYSTEM STATUS LED

RMI-Q in acquisition mode with full probe location

Deflect the stylus to select **"Acquisition mode on"**. Ensure this is done within 60 seconds of the RMI-Q system status LED flashing green.

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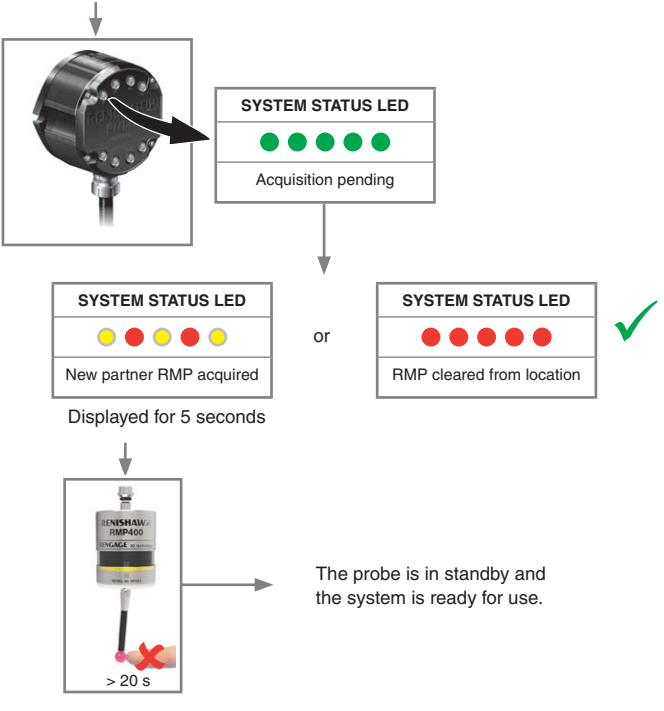

NOTE: Please refer to the *RMI-Q installation guide* (Renishaw part no. H-5687-8504) when partnering up to four RMP40s.

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Mounting the probe on a shank

Montage des Messtasters an die Werkzeugaufnahme

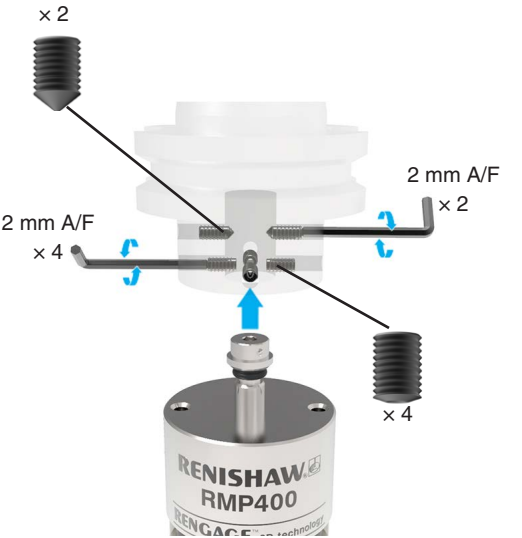
Montaje de la sonda en un cono

Montage du palpeur sur un cône

Installazione della sonda sul cono

プローブのシャンクへの取り付け

1



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Stylus on-centre adjustment

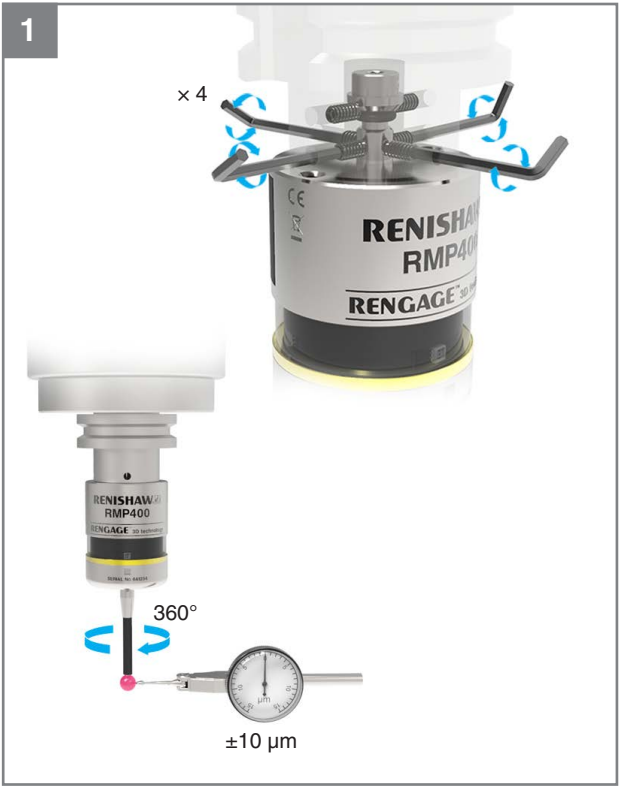
Rundlauf des Tastereinsatzes einstellen

Ajuste de centrado del palpador

Centrage du stylet

Centratura dello stilo

スタイラスの芯出し調整方法



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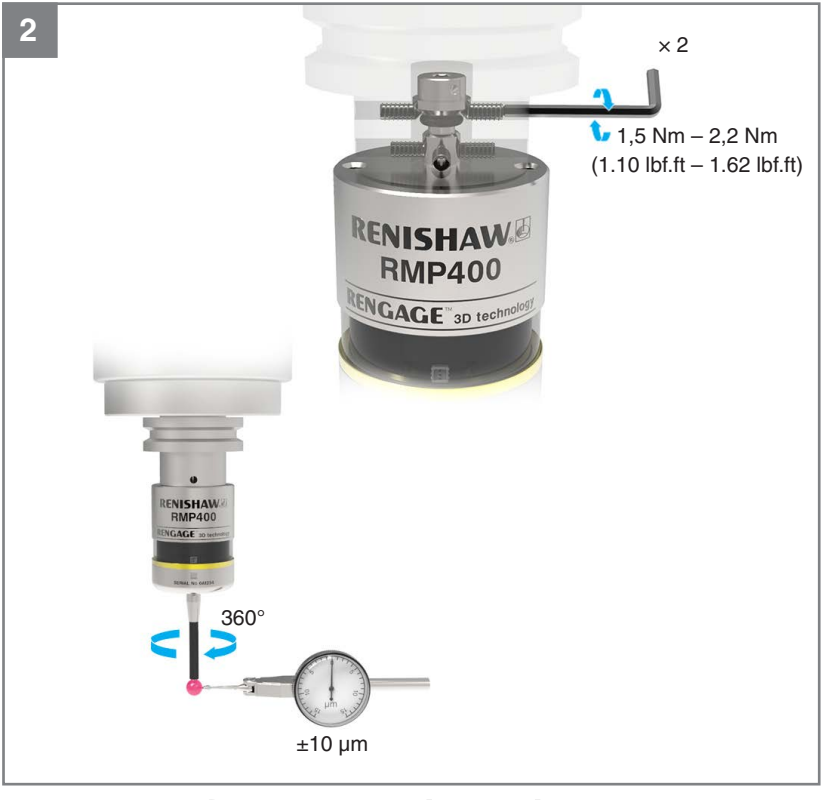

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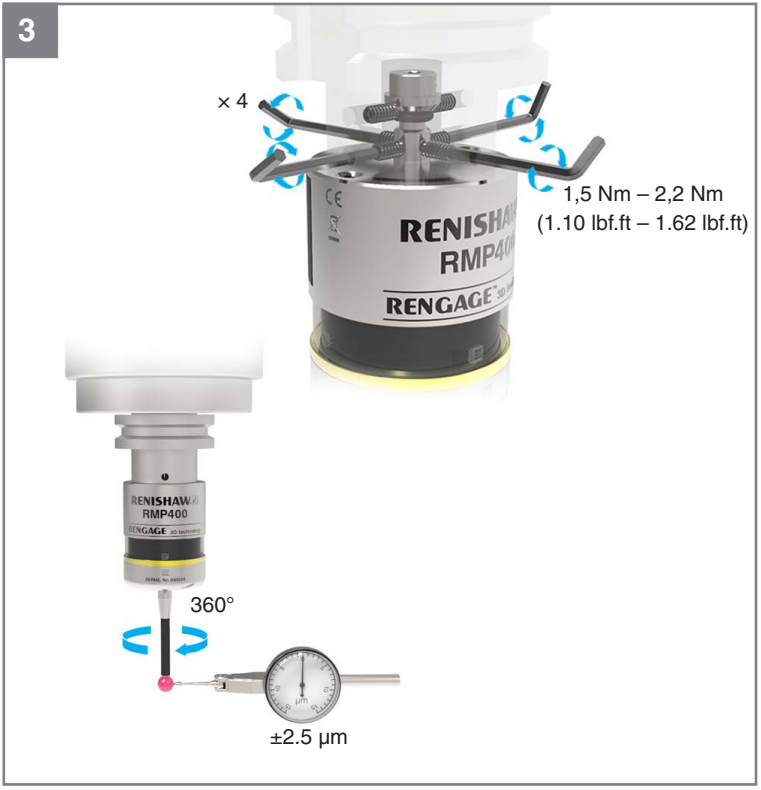

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Cleaning

Use a clean cloth.

Reinigung

Verwenden Sie ein sauberes Tuch.

Limpieza

Utilice un paño limpio.

Nettoyage

Utiliser un chiffon propre.

Pulizia

Usare un panno pulito.

クリーニング

きれいな布を使用して下さい。

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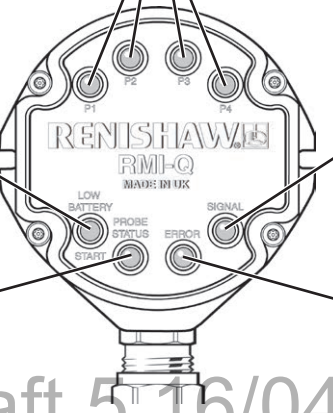
P1, P2, P3, P4 SYSTEM STATUS LEDs	
Off	Probe number empty
	Probe number full, in standby
	Probe number full, operating
	Probe number full, 0.5 s compatibility error
	Selection error
	Acquisition/clearing pending, full
	Acquisition pending, empty
	Acquisition complete, probe full
	Clearing complete, probe empty

Key to the symbols	
	Continuously on
	Flashing

LOW BATTERY/START LED	
Off	Battery is okay and no M-code start/stop in progress
	Battery low
	M-code start/ stop in progress
	Battery low and M-code start/ stop in progress
	Overload error

SIGNAL LED	
Off	No probes operating
	Good communications
	Poor communications
	Overload error



PROBE STATUS LED	
	Probe triggered
	Probe seated
	Overload error

ERROR LED	
Off	No error
	Error
	Overload error

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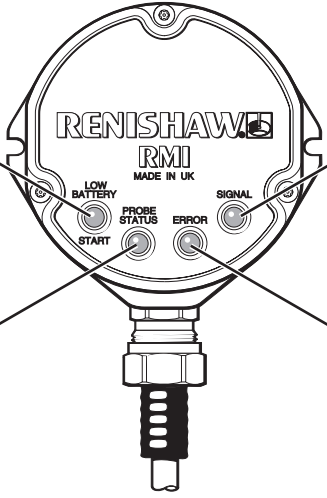
RMI visual diagnostics

Key to the symbols	
●	Continuously on
● ● ●	Flashing

LOW BATTERY/START LED	
●	Battery low
●	M code start/ stop in progress
●	Battery low and M code start/ stop in progress
Off	Battery is okay and no M code start/stop in progress
● ● ●	Overload error

SIGNAL LED	
●	Excellent communications
●	Good communications
●	Poor communications
Off	No probes operating
● ● ●	In acquisition mode
● ● ● ● ●	New partner RMP acquired
● ● ●	Overload error



PROBE STATUS LED	
●	Probe triggered
●	Probe seated
● ● ●	Overload error

ERROR LED	
●	Error
Off	No error
● ● ●	Overload error

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Warranty

Equipment requiring attention under warranty must be returned to your equipment supplier.

Unless otherwise specifically agreed in writing between you and Renishaw, if you purchased the equipment from a Renishaw company, the warranty provisions contained in Renishaw's CONDITIONS OF SALE apply. You should consult these conditions in order to find out the details of your warranty but, in summary, the main exclusions from the warranty are if the equipment has been:

- neglected, mishandled or inappropriately used; or
- modified or altered in any way except with the prior written agreement of Renishaw.

If you purchased the equipment from any other supplier, you should contact them to find out what repairs are covered by their warranty.

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Patents

Features of RMP400 and features of similar products are the subject of one or more of the following patents and/or patent applications:

Patent numbers will be placed here when there are any

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