

## 2.4 Replacing Measuring Unit

### NOTICE

**Risk of damage to the equipment!**

- Clean and dry the probe well before opening!
- Do not use compressed air to clean the touch probe!
- When inserting the new measuring unit, ensure that the O-rings inside the touch probe housing and on the measuring unit are properly seated!

1. Remove the stylus according to chapter 2.2.1.
2. Remove the battery from the touch probe according to chapter 2.2.3.
3. Insert the C-spanner into the bores of the measuring unit and carefully unscrew the measuring unit in a counter-clockwise direction.
4. Insert the new measuring unit into the touch probe and carefully screw it in by hand.
5. Insert the C-spanner into the bores of the new measuring unit, screw the measuring unit completely to the stop.
6. Mount the stylus according to chapter 2.2.1.
7. Reinsert the battery into the touch probe according to chapter 2.2.3.

### INFORMATION

After changing the battery, the time for starting the touch probe (reboot) is approx. 5 s!

8. Align the stylus to spindle centre.
9. Calibrate the probe.

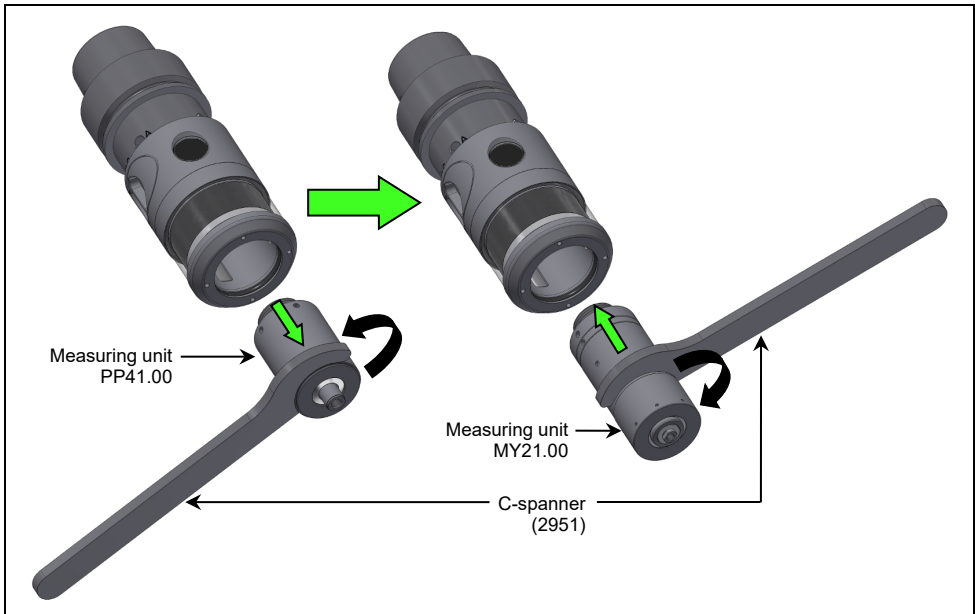


Fig. 17 Replacing Measuring Unit (Example: PP41.00 -> MY21.00)

## 2.5 Force setting (Measuring Unit PP41.00 only)

### INFORMATION

In the case of strong vibrations in the machine or when using heavy probe inserts, an increase in the trigger force may improve the measuring results.

1. Unscrew the stylus (refer to chapter 2.2.1).
2. Use an AF1.3 mm hexagon key to increase or decrease the trigger force (refer to Fig. 18).

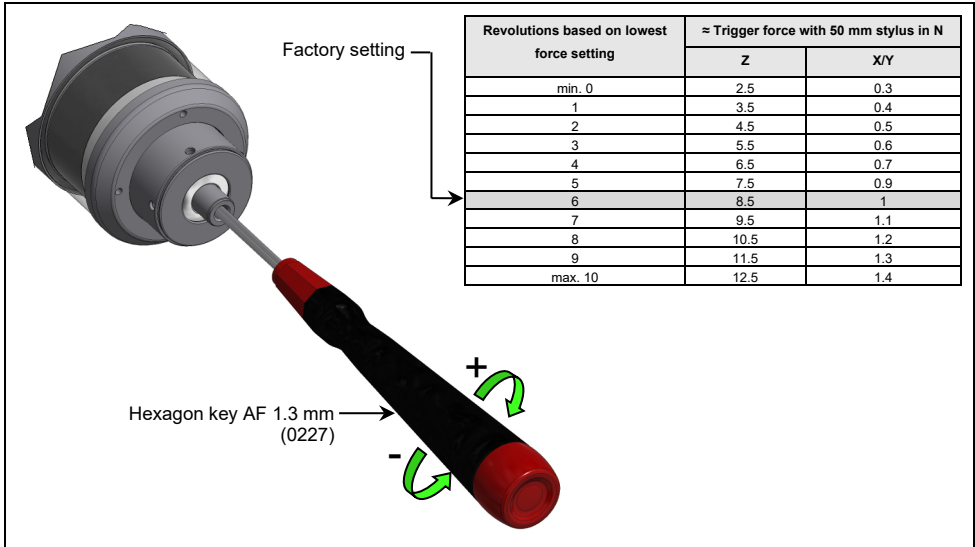


Fig. 18 Adjusting trigger force

3. Screw in the stylus (refer to chapter 2.2.1) and align the stylus to the spindle centre (refer to chapter 2.2.5).
4. Calibrate the probe.

## 2.6 Maintenance and Cleaning (Measuring Unit PP41.00 only)

### NOTICE

#### Risk of damage to the equipment!

- Clean and dry the probe well before opening!
- Do NOT clean with compressed air or high pressure water!
- Do NOT use any sharp tools (these could damage the inner seal)!

1. Unscrew the stylus.

### INFORMATION

Dirt can collect under the metal eyelid.

2. Remove the service cover with metal eyelid and conical spring by hand.
3. Clean the touch probe and components under running water.
4. Reassemble all parts.
5. Align the stylus to spindle centre.
6. Calibrate the probe!

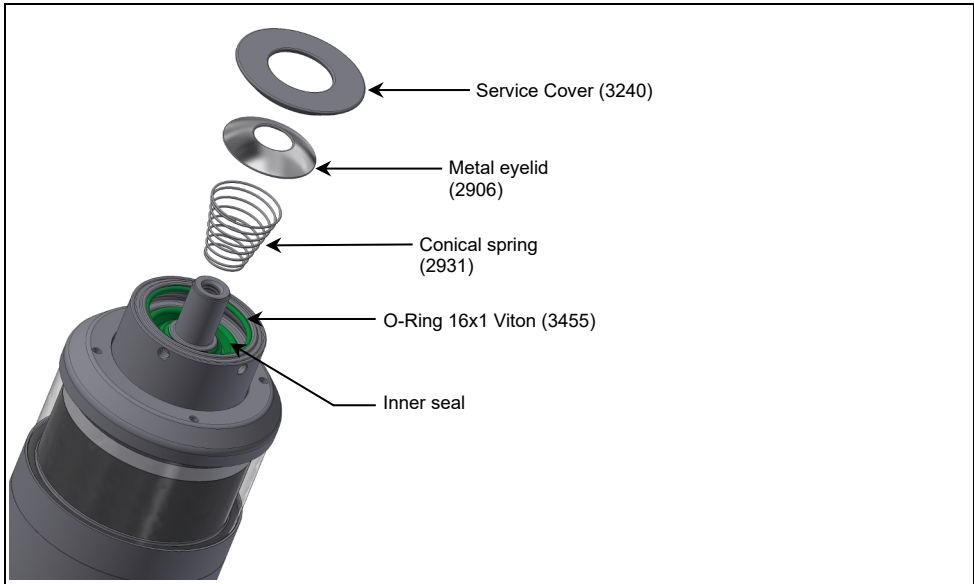


Fig. 19 Maintenance and cleaning of the radio-wave touch probe TP-R-400

## 2.7 Modular System (for Measuring Units PP41.00 and MY21.00 only)

### NOTICE

#### Risk of material damage/damage to the equipment!

- Wipe the probe clean and dry before dismounting!
- Do not use compressed air to clean the touch probe!
- When screwing in the extension, make sure the O-ring is properly seated.
- The probe may be extended by a maximum of 200 mm!
- Align probe in the spindle axis to the spindle centre.
- Calibrate the touch probe.

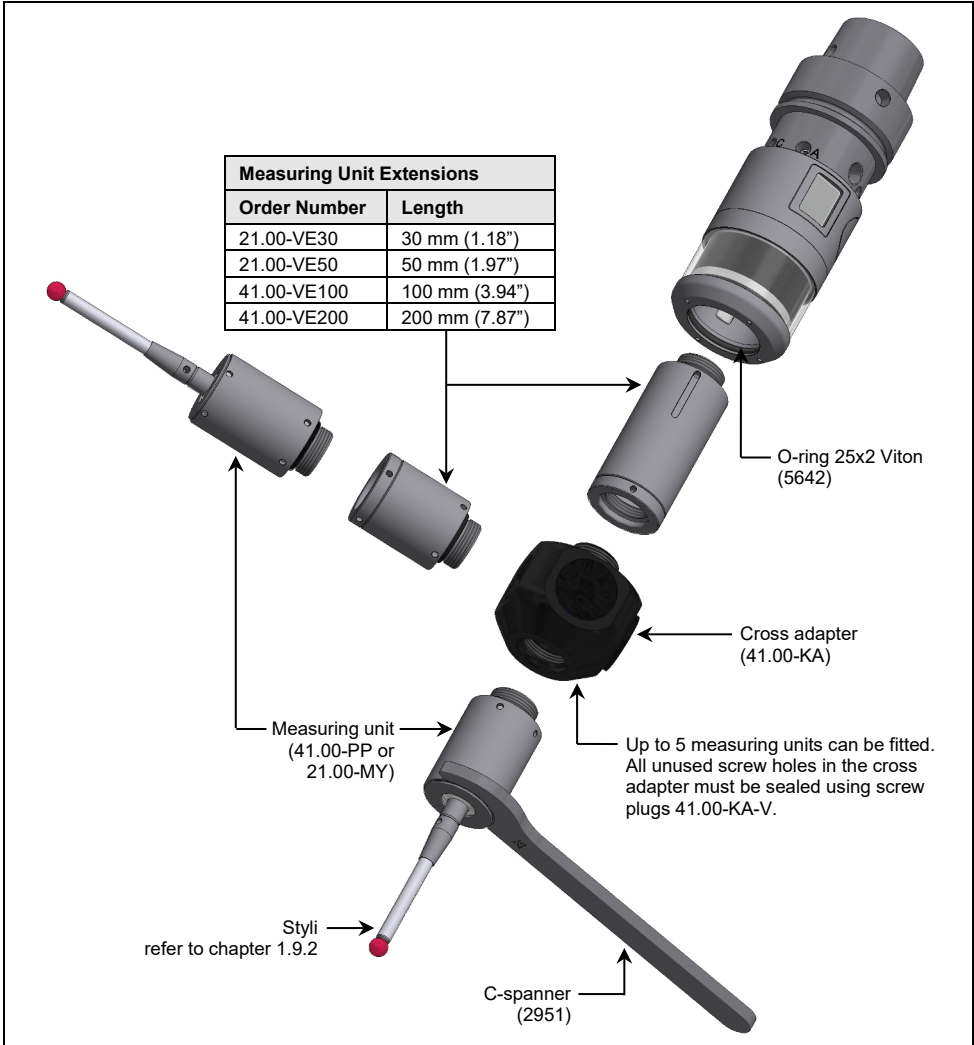


Fig. 20 Modular system

# EU Declaration of Conformity

This declaration of conformity is issued under the sole responsibility of m&h Inprocess Messtechnik GmbH.

Manufacturer/  
Representative: **m&h Inprocess Messtechnik GmbH**  
Am Langholz 11  
88289 Waldburg  
Germany

Product name: **Radio-wave touch probe**

Model / Type: **TP-R-400**

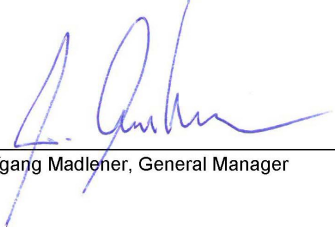
The product mentioned above meets the requirements of the following relevant directives / standards:

Directive / Standard	Issue	Title / Section
2011/65/EU	2011	Restriction of the use of certain hazardous substances in electrical and electronic equipment
2014/53/EU	2014	Making radio equipment available on the market
2014/30/EU	2014	Electromagnetic compatibility
ETSI EN 300328	2019	Wideband transmission systems - Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques
ETSI EN 301489-1	2019	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services - Part 1
ETSI EN 301489-17	2020	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services - Part 17
EN ISO 12100	2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 62368-1	2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements



Waldburg, 15.07.2021

Place, Date

  
Wolfgang Madleher, General Manager

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Product name: **Radio-wave touch probe**

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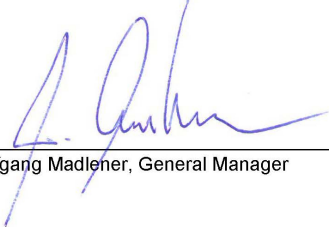
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BS EN 62368-1	2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements



Waldburg, 15.07.2021

Place, Date



Wolfgang Madleher, General Manager



## **Machine Tool Measurement**

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