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Incremental probes PROCAP P9010-P9015-P9030

OPERATING INSTRUCTIONS



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Acknowledgement

Thank you for the confidence shown by purchasing this product which has been manufactured and checked in our workshops with great care. We give you our assurance that the quality of the product conforms to the technical standards and data contained in our sales literature (operating instructions, brochure, catalogue).

Parts list

- ◆ One PROCAP probe with case and standard measurement probe equipped with tough metal ball tip.
- ◆ One clamping key.
- ◆ One set of operating instructions.
- ◆ One measurement protocol.
- ◆ Accessories as ordered.

Generality

PROCAP measurement probes, in conjunction with a PROMUX or a PROMUX4C counter or with a PROMUX8 multiplexer form a highly accurate digital linear measuring unit. Counters and multiplexers are supplied with operating instructions.

Operating principle

A precision glass marker with a line pattern is attached rigidly to the probe measuring rod. Errors produced by a mechanical transmission are therefore completely avoided. The marker is scanned by an opto-electronic system and the signals generated are processed in the counter. A spring built into the PROCAP probe determines the measurement force.

Handling

The probe is a high precision measuring instrument. It must be handled with care and not be subjected to rough treatment. The probe is fitted with a ball cage. It should never be cleaned with a liquid (see technical specifications).

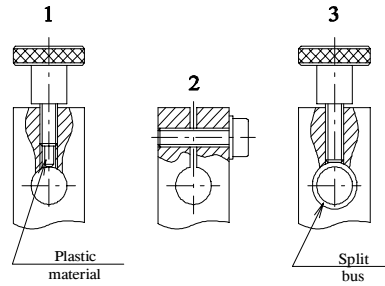
Use

Switch the counter off.
Connect the probe to the counter using the connector provided.
Tighten the securing bush of the connector (the counter may produce errors if it is not properly tightened).
Secure the probe carefully on its support.
Switch the counter on.

Technical specifications	9010	9015	9030
Travel indicator	Glass marker	Glass marker	Glass marker
Travel range	10 mm	15 mm	30 mm
Measurement accuracy	$\pm 0,75 \mu\text{m}$	$\pm 1,0 \mu\text{m}$	$\pm 1,25 \mu\text{m}$
Measuring rod guide	Ball cage	Ball cage	Ball cage
Operating position	Immaterial	Immaterial	Immaterial
Downward vertical measurement force $\pm 30\%$	0,57...1,47 N	0,73...1,68 N	0,69...2,41 N
Upward vertical measurement force $\pm 30\%$	0,50...1,28 N	0,56...1,63 N	0,48...1,99 N
Protection per DIN40050/CEI529	IP 50	IP 50	IP 50
Source temperature	20°C	20°C	20°C
Operating temperature	0...50°C	0...50°C	0...50°C
Storage temperature	-20...70°C	-20...70°C	-20...70°C
Diameter of fixture	8h6	8h6	8h6
Measurement probe thread size	M 2,5	M 2,5	M 2,5
Connecting cable	2 m.	2 m.	2 m.
Maximum length of cable	12 m	12 m	12 m
Weight with cable and plug	155 gr	160 gr	195 gr
Signals el. values	10 μAcc	10 μAcc	10 μAcc
Grating pitch	20 μm	20 μm	20 μm
Permissible measuring velocity	1 m/s	1 m/s	1 m/s

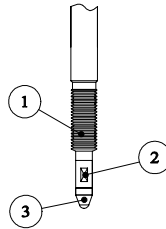
Recommended clamping fixture

The clamping fixture of PROCAP 9010 - 9015 - 9030 probes is suitable for standard 8 H7 bores. The following attachments are recommended :



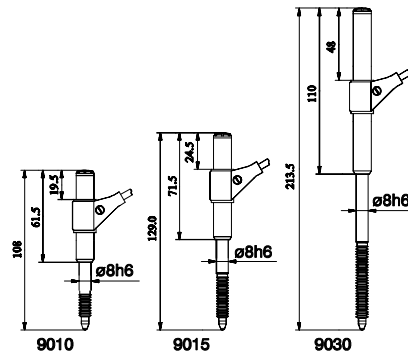
Changing measurement probes

The measuring rod is provided with an M2.5 thread for attaching measurement probes. To change the probe, pull the bellows 1 upwards, hold the measuring rod 2 with the key provided for this purpose and unscrew the probe 3 by hand.



Probes dimensions

(Values for indication)



Warranty

Purchasers are given a 12 month warranty covering defects in material and/or manufacture and/or assembly, other than defects arising from misuse or incorrect handling. The supplier undertakes to ensure the correct operation of the probe, free of costs of labour or spare parts, or at its discretion to replace defective material with an identical product (or its successor in the product range).

The warranty is rendered null and void immediately if the user opens or attempts to open the probe, or fails to maintain it properly.

The warranty does not in any event extend to consequential damage caused by the malfunction of the product.

If the national laws of the purchaser's country provide for a statutory warranty which is more extensive than the one stipulated above, then the minimum warranty granted by the national laws is given in place of the contractual warranty; however, if such laws only require the duration of the warranty to be longer than the 12 months provided by this contract, the contractual warranty is simply extended accordingly.

To claim under the warranty, the purchaser must return the product to the supplier within the contractual warranty period.