



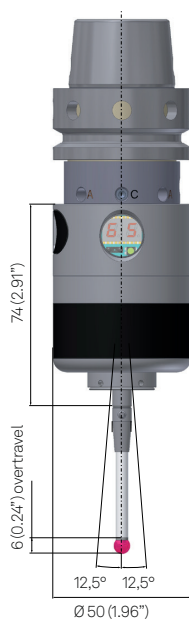
Radio-wave probing system RWP38.41

Compact probing system for everyday usage

Latest-generation Hexagon touch probes fulfil all requirements in the machine tool in tried and tested fashion. Extreme accelerations, high positioning speeds, constant vibrations, hard tool changes, increased temperatures and coolants pose no problems for Hexagon touch probes. Hexagon's precision mechanics can continue to switch without wear and extremely precisely for years under all these conditions.

The compact radio-wave touch probe RWP38.41 has been developed for machines requiring signal transmission across greater distances where infrared transmission is not sufficient. It is ideally suited for use on machine tools with limited maximum tool diameter and restricted height of the Z axis, particularly with 5-axis heads. It can be extended in a modular way and is the perfect solution for complex measurements. Thanks bidirectional communication the RWP38.41 can be combined with the radio-wave tool setter RWT35.50.

- Proven and safe SCS technology
- Patented THERMO-LOCK® technology
- Touch probe can be extended almost without limit



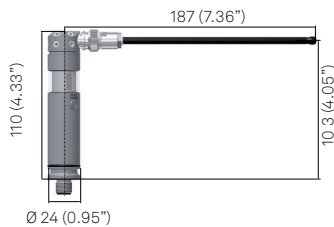
Technical Data	
Probing Directions	±X; ±Y; -Z
Max. Stylus Overtravel	XY = ±12,5°; Z = -6 mm
Trigger force with 50 mm stylus	XY = 0,3 - 1,4 N Z = 2,5 - 12,5 N
Factory setting	XY = 0,96 N, Z = 8,5 N
Recommended probing feedrate	Max. 2000 mm/min
Power supply	2x battery 3,6 V, ½ AA (1200 mAh)
Battery lifetime	325 h (in continuous use) Standby = 230 d
Material	Stainless Steel
Weight without shank	Approx. 460 g
Temperature range	Storage: 5 °C – 70 °C Operation: 10 °C – 50 °C
Repeatability	max. 1 µm (2 Sigma) with 50 mm Stylus and 254 mm/min
Transmitting frequency range	433,075 MHz – 434,650 MHz
Number of channels	64
Channel spacing	25 kHz
Sealing	IP68: EN60529
Radio-wave transmission	SCS Technology (Self-Channel-Select)



RWR95.40 Radio-wave receiver

The compact radio-wave receiver RWR95.40 communicates with all Hexagon radio-wave probes, including the temperature probe. While in operation, the environment is continuously checked for interference from transmitters (SCS).

- Processes measurement and temperature data
- Proven and reliable SCS technology (Self Channel Select)
- No additional interface required in the control cabinet



State-of-the-art

ITE-technology and One-Touch-Strategy

The infrared probe moves at top speed to the measuring point, so that it can reliably probe at constant measuring speed with only one touch.

Proven SCS radio-wave transmission in the 433 MHz range

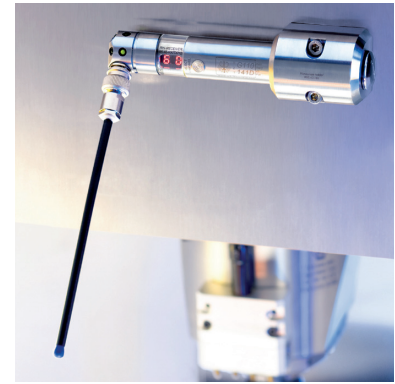
64 channels can be freely set on a digital display on the probe and at the receiver. The patented SCS Technology (Self-Channel-Select) of the microprocessor-controlled receiver responds by continuously checking surroundings for interfering signals. The receiver blocks interfering frequencies for further use.

Bidirectional activation

The RWP38.41 offers the option of bidirectional activation. This is done using separately coded signals and is therefore not inferior to mechanical methods with regard to reliability.

Patented Thermo-Lock® Technology

Thermo-Lock® enables precise measurement results even with large temperature differences. It eliminates uncontrolled expansion of the shank and probe body.



The radio-wave receiver RWR95.40 reliably processes measurement and temperature data



The probes moves at high speed, so that measurement times are significantly reduced.



Thermo-Lock® prevents heat transfer from the spindle to the probe

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit [hexagonmi.com](https://www.hexagonmi.com).

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