

Microwave probes for concrete

Microwave probes for plate and cone mixers, single and twin-shaft mixers

Designation: Type 6 / Type 7

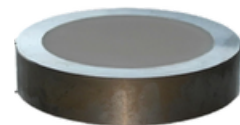
Measuring range:	All consistency ranges
Output:	0–20 mA, 0–10 V DC
Power supply:	18–24 V DC
Probe dimensions:	Type 6: Ø 105 mm, H 100 mm / Type 7: Ø 90 mm, H 85 mm
Holder dimensions:	Type 6: Ø 150 mm, H 35 mm / Type 7: Ø 126 mm, H 30 mm



Microwave probe for mixer with rotating trough

Designation: Type 18

Measuring frequency:	300–500 MHz
Measuring range:	All consistency ranges
Output:	0–20 mA
Power supply:	Rechargeable battery 3.7 V, 9000 mAh Battery pack replaceable, 180 h operating time
Dimensions probe:	Ø 105 mm, H 22 mm
Dimensions holder:	Ø 120 mm



Features of Bikotronic microwave probes for concrete:

- Extremely wear-resistant ceramics, 10 mm thick over the entire surface (6 mm for type 18)
- Suitable probes for all mixer types
- Absolute linearity, which guarantees accurate measurements in very dry and very wet concrete
- The microwave probes were developed in cooperation with the Chair of High Frequency Engineering at the Faculty of Engineering at Kiel University. The measurement accuracy of the microwave probes under laboratory conditions is better than 0.1%.
- The Bikotronic microwave probes use the high frequency method to determine the moisture content in concrete, the dielectric constant of water is compared with that of the material. This measurement result is converted by the evaluation electronics and output as the moisture content.