TC64-DIGILOG
Touch Probe

Workpiece Measurement

Radio Transmission

shark360 DIGILOG

Wear-free Measuring Mechanism

Workpiece Inspection

ContourScan

Single & Mass Production

Touch Probe TC64-DIGILOG

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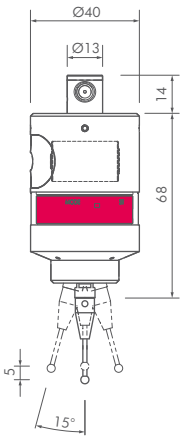
TC64-DIGILOG | Touch Probe | Tactile workpiece measuring system with BRC radio transmission

Digilog radio touch probe with revolutionary shark360 measuring mechanism

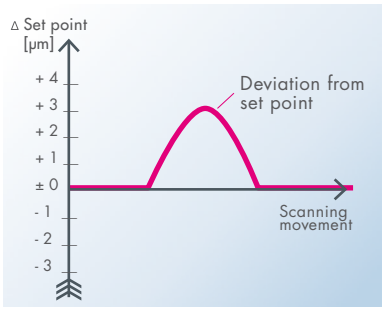
- DIGILOG = high-precision digital measurement and cyberspeed scans in analogue mode
- Detection of machining errors by scanning process
- Workpiece measurement in turning & milling machines
- Data transmission with BRC radio technology



Scanning procedure for checking of workpiece surface

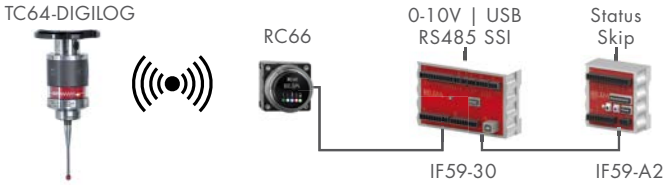
Your benefit:

- Extremely fast measurements (analogue & digital)
- Superior precision due to patented **shark**360 measuring mechanism
- Precise non-lobing touch characteristics
- No-wear, optoelectronic measuring mechanism



Result: Detection of machining error

System overview:



Measuring resolution

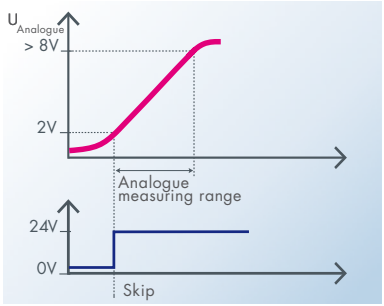
Stylus [mm]	30	50	75	100
Analogue measuring range [µm]	850	1200	1600	2100
Resolution [mV/µm]	8.8	6.2	4.5	3.6
Converter resolution [µm/Digit]	0.276	0.392	0.537	0.682
Sampling rate internal | external	1 kHz | 1 ms/Value or Status			

shark360 measuring mechanism

Technical data

Protection class	IP68
Approach direction	±X, ±Y, ±Z
Measuring force in XY | Z	1.3 N/0.9 N/0.7 N/0.5 N * | 5.9 N
Measuring force (LF) in XY | Z	0.4 N/0.3 N/0.2 N/0.17 N * | 2.0 N
Max. deflection in XY | Z	±15° | 5 mm
Max. probing speed	2 m/min
Repeatability	0.4 µm 2σ
Mass	230 g
Signal transmission | Frequency band	Radio (BRC-Technology) | 2.4000 ... 2.4835 GHz
Transmission power | Operating range	0 dBm | 15 m

* Stylus L = 30 mm/50 mm/75 mm/100 mm LF: Low Force



Output signals (Trigger point/Analogue measuring range)

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