



TC64-DIGILOG Touch Probe



Workpiece Measurement



Radio Transmission



shark360 DIGILOG



Wear-free Measuring Mechanism



Workpiece Inspection



ContourScan



Single & Mass Production

Touch Probe TC64-DIGILOG

BLUM
focus on productivity



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

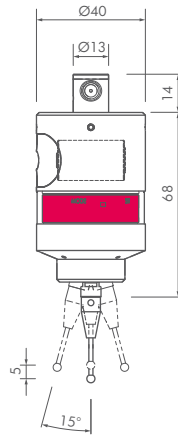
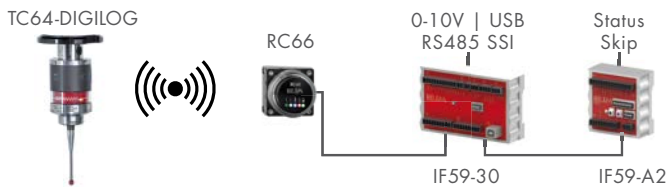
Digilog radio touch probe with revolutionary shark360 measuring mechanism

- 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

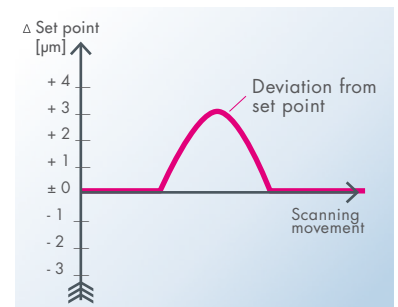
Your benefit:

- Extremely fast measurements (analogue & digital)
- Superior precision due to patented **shark360** measuring mechanism
- Precise non-lobing touch characteristics
- No-wear, optoelectronic measuring mechanism

System overview:



Scanning procedure for checking of workpiece surface



Result: Detection of machining error

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			

Technical data

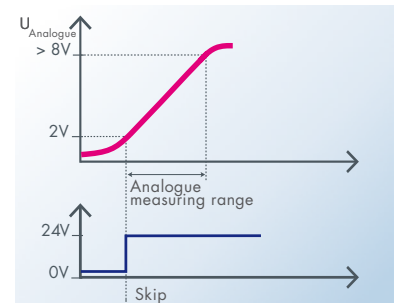
Protection class	IP68
Approach direction	±X, ±Y, ±Z
Measuring force in XY Z	1.3 N/0.9 N/0.7 N/0.5 N * 5.9 N
Measuring force (LF) in XY Z	0.4 N/0.3 N/0.2 N/0.17 N * 2.0 N
Max. deflection in XY Z	±15° 5 mm
Max. probing speed	2 m/min
Repeatability	0.4 µm 2σ
Mass	230 g
Signal transmission Frequency band	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



shark360 measuring mechanism



Output signals (Trigger point/Analogue measuring range)

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