



TC76-DIGILOG Touch Probe



Workpiece Measurement



Hardwired



shark360 DIGILOG



Wear-free Measuring Mechanism



Modular System



Workpiece Inspection



ContourScan



Single & Mass Production

Touch Probe **TC76-DIGILOG**

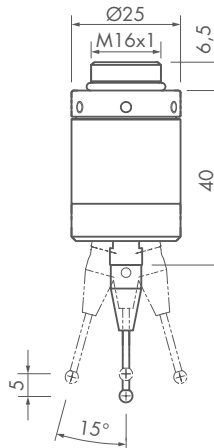
BLUM
focus on productivity



TC76-DIGILOG | Touch Probe | Tactile measuring system with cable connection

Digilog 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 grinding, turning & milling machines
- Outputs for 24 V trigger signal and 2 ... 8 V analogue voltage

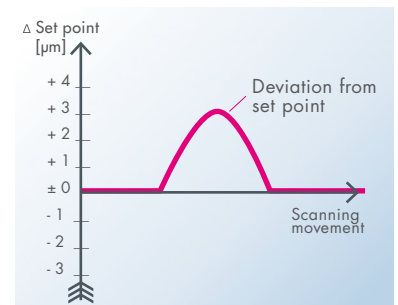
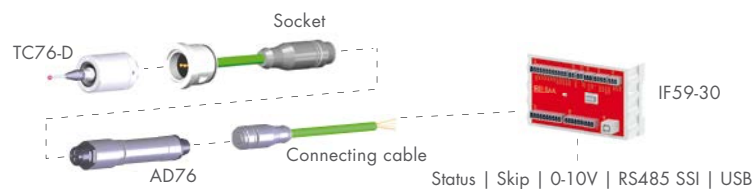


Scanning procedure for checking of workpiece surface

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:



Result: Detection of machining error

Measuring resolution (TC76-D + AD76)

Stylus [mm]	30	50	75	100
Analogue measuring range [μm]	500	700	950	1200
Resolution [$\text{mV}/\mu\text{m}$]	12.6	8.8	6.4	5.0
Converter resolution [$\mu\text{m}/\text{Digit}$]	0.193	0.275	0.376	0.478
Sampling rate	50 kHz/20 μs			

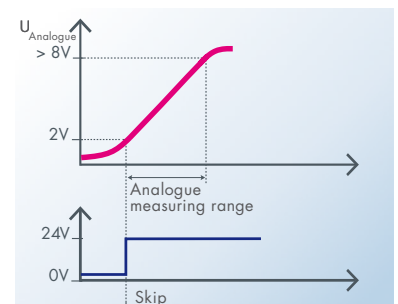


shark360 measuring mechanism

Technical data

Protection class	IP68
Approach direction	$\pm X, \pm Y, \pm Z$
Measuring force in XY Standard	1.3 N/0.9 N/0.7 N/0.5 N *
Measuring force in XY (Low Force)	0.4 N/0.3 N/0.2 N/0.17 N *
Measuring force in Z (Standard) (Low Force)	5.9 N 2.0 N
Max. deflection in XY Z	$\pm 15^\circ$ 5 mm
Repeatability	0.4 μm 2σ
Max. probing speed	2 m/min
Mass	80 g

* Stylus L = 30 mm/50 mm/75 mm/100 mm



Output signals (Trigger point/Analogue measuring range)



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