



TC63-RG Single Roughness Gauge



Workpiece Measurement



Radio Transmission



Wear-Free Measuring Mechanism



Modular System



Roughness Measurement



Mass Production



Roughness Gauge TC63-RG Single

BLUM
focus on productivity



TC63-RG Single | Roughness Gauge | Tactile workpiece measuring system with BRC radio transmission

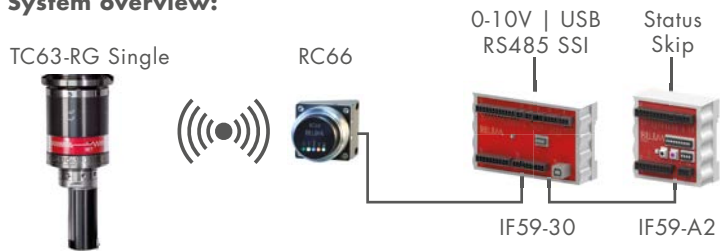
Modular roughness gauge for machine-integrated quality monitoring of plane surfaces

- Evaluation of surface roughness in original fixturing
- Early detection of poor surface quality
- Roughness measurement on milling, turning and grinding machines

Your benefit:

- Minimizing of rejects by allowing immediate rework
- Enhanced productivity and process reliability by elimination of manual and downstream tests
- Touch element similar to standard specifications for high precision
- Very low measuring force
- No-wear, optoelectronic measuring mechanism
- Proven and robust design

System overview:



Measuring resolution

Analogue measuring range	180 μm
Resolution Converter resolution	34.8 mV/ μm 0.067 $\mu\text{m}/\text{Digit}$
Sampling rate internal external	1 kHz 1 ms/Value or Status

Technical data

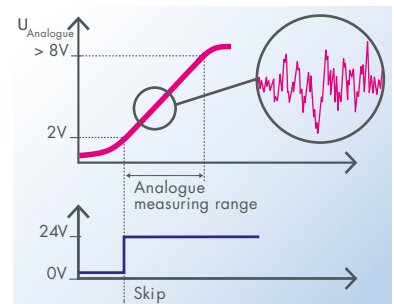
Protection class	IP68
Approach direction Measuring force	$\pm X, \pm Y$ with spindle orientation 0.08 N
Max. deflection in XY	950 μm
Repeatability	0.4 μm 2σ
Max. probing speed	100 mm/min
Measureable roughness	> Rz 1 μm
Roughness parameters	Ra, Rq, Rt, Rz, Rmax, Wt
Signal transmission Frequency band	Radio (BRC Technology) 2.4000 – 2.4835 GHz
Transmission power Operating range	0 dBm 15 m
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)



TC63-RG – for high-precision roughness measurement on plane surfaces



Display and operation via machine control or BLUM touch panel



Output signals (Trigger point/Analogue measuring range)



Various accessories available



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More than 40 subsidiaries and service offices.

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