

GAP Tester

Measuring Unit for Time-saving and Comfortable Adjustment of the Gap of Eddy Current Probes



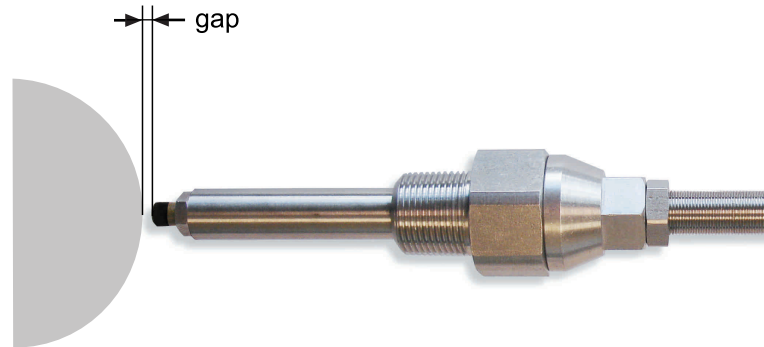
Efficient Adjustment of the Gap with the kmo GAP Tester

Systems to measure shaft vibrations work based on the Eddy Current principle; the gap between probe tip and surface of the shaft is measured contactlessly. First the probe has to be adjusted to a basic gap of roundabout 1.2 mm. Then you measure a signal (gap voltage) at the output of the transmitter/oscillator/proximator which is proportional to the gap; typically 8 V are recommended for an ideal adjustment.

The typical technician usually tends to adjust the gap exactly to 8.000 V; this consumes a lot of time - wasted time! You can't improve the accuracy of a vibration measurement by adjusting the gap exactly to 8.000 V. The vibration monitor doesn't take the DC signal into account, only the superimposed AC signal. The gap signal is adjusted correctly as long as the signal stays within the linear range of the characteristic even at maximum amplitude.

With the **kmo** GAP tester you can remarkably speed up the gap adjusting process; at the same time the technician can be sure to have set the gap precise enough. The actual gap between probe and shaft is indicated by LEDs in the traffic light colours red, yellow and green. Arrows below the LEDs indicate the required direction of rotation to improve the setting. While approaching the optimum gap the LEDs switch from red in the beginning to yellow and then to first, second and third green until the optimum gap is set. Most of the technicians achieve three green LEDs at first attempt.

Many transmitters/oscillators/proximitors provide the gap signal via a BNC socket. Each **kmo** GAP tester comes with an adapter from BNC plug to a double banana socket and a measuring cable with a BNC plug. For convenient use the **kmo** GAP tester is equipped with a magnet on its backside to attach it on each magnetic material.



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