

GF04

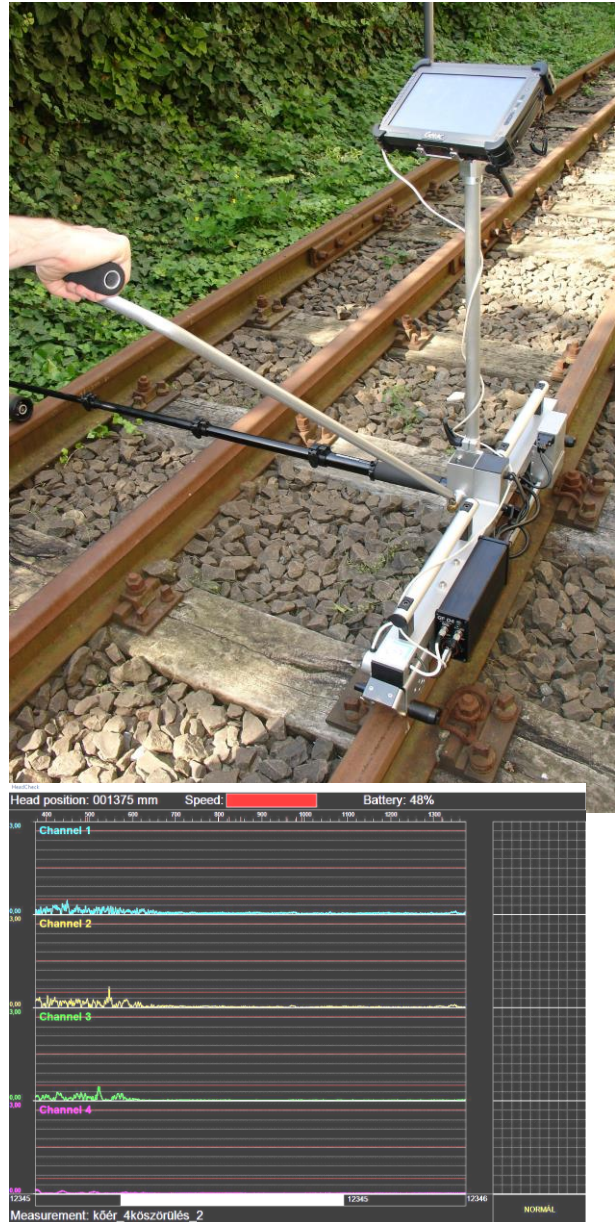
Rolling Contact Fatigue Crack Measuring Device

The GF04 device is suitable for rolling contact fatigue crack measurement. The four probes (with changeable stands) of the device - working on eddy current principle – scan the rail surface to be examined.

The measuring results are displayed continuously on the computer of the device. The measured data is represented in real time in time diagram and in vector plan as well. During the operation the operator can sign certain specific areas in the measuring results with markers.

The measuring program prepares measuring protocols from the measured data which can be on view even on site as well. The damage depth is counted by the program with the average cracking angle set upon experiences referring to the rail to be investigated. The protocol displays in column diagram the maximum damage depths measured in given distance and the number of cracks over the adjustable fault threshold.

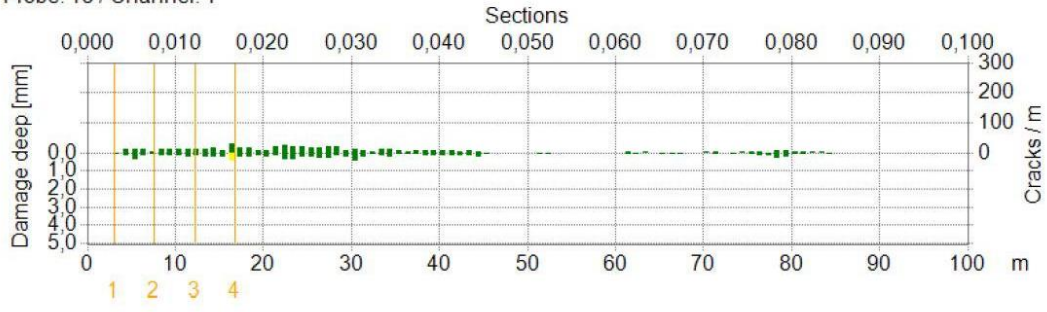
The evaluation of the damage depth is executed with different colors according to the error range determined by the railway company that utilizes the data.



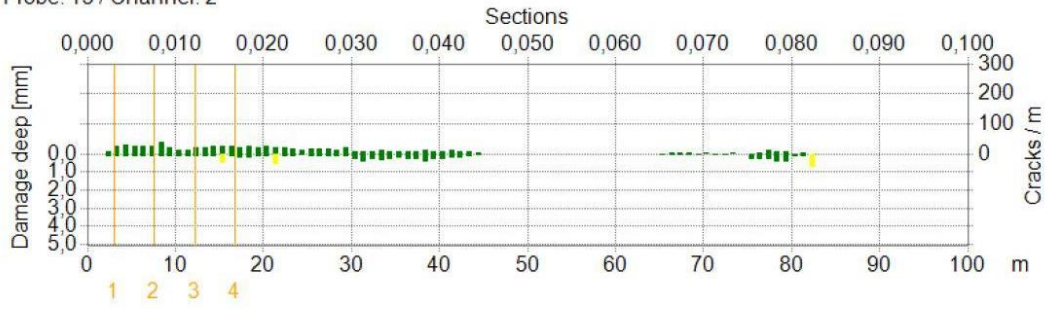
Technical specifications:

Number of the measuring channels	4
Measuring frequency	150kHz
Measuring range	90° 0..12mm 25° 0..5mm
Smallest detectable error	0.1mm
Measuring accuracy	0..0.5mm ±0.1mm
Distance of the measuring points	0.25mm
Measuring speed	0.3m/s (max. 0.6m/s)
Instrument battery	LiFePo4
Operating time with one battery	10h
Dimensions	
1. in disassembled condition	1. 1050x300x300 mm
2. in assembled condition, telescopic support leg is in folded condition	2. 1050x700x900 mm
Operational temperature	0-50°C
Computer	Getac E110
Vision scope of the probe	Ø 6mm

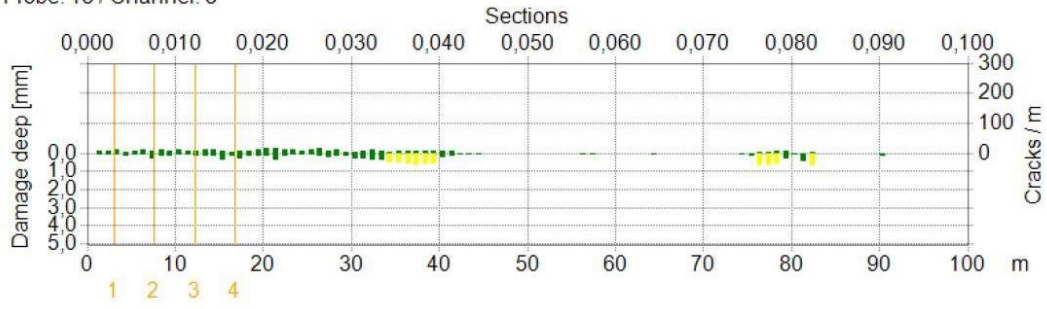
Probe: 13 / Channel: 1



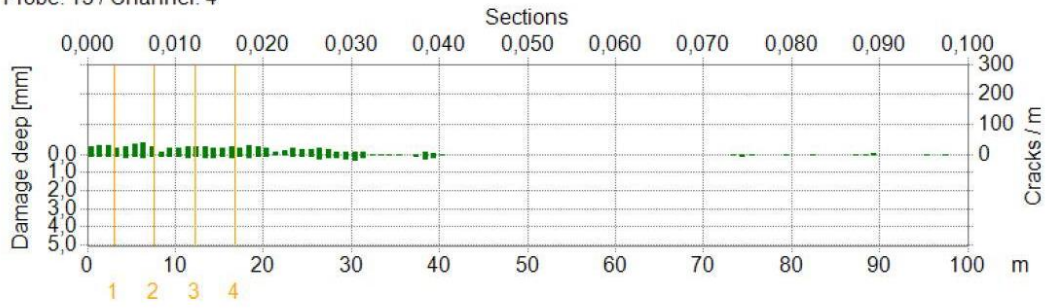
Probe: 13 / Channel: 2



Probe: 13 / Channel: 3



Probe: 13 / Channel: 4



Legend:

