

150SMC - lite

measuring pantographs as to EN 50206-1

The state-of-the-art system 150SMC-lite meets the present requirements for testing pantographs and fulfils not only the basic function of the KM13 instrument, but also allows other measurements subject to the standard EN 50206-1.

By this system the software can be customized as requested by the customer (customizing printed reports, language versions etc.). An Ethernet interface can be connected as well, or the modern wireless technologies can be used. Within the warranty, the SMC systems are provided with the software upgrade free of charge (depending on the legislative).

The system 150SMC-lite – a measuring system allowing standard measurements of the characteristic forces according to EN 50206. The system 150SMC-lite is a direct replacement of the older version of the measuring instrument KM13. This instrument allows for a future upgrade to 150SMC.

As default the system 150SMC-lite facilitates:

- measuring the characteristic forces up to 150 N
- checking the controlling device – OZ
- checking the highest raise

Selected technical parameters:

- measurement range of force: 10-150 N, resolution 0.1 N
- accuracy of force measurement: 0.5% from the measured value ± 0.1 N
- measurement range of extension: 5,000 mm, resolution 1 mm
- accuracy of extension measurement: 0.5% from the measured value ± 1 mm
- power supply: 230 V/110 V, 50-60 Hz, max. 175 W
- operating temperature range $+5^{\circ}$ to $+40^{\circ}$ C
- maximum relative humidity: 90%, non-condensing
- ingress protection IP 31
- working environment: standard indoor without external mechanical stress and corrosive effects

Communication interface: RS-232, USB, or Ethernet



The new, state-of-the-art measurement system is also offered with focus on a faster and more precise setting of the current collector. The new measurement system allows detecting additional faults on the collector which are not detectable by the older types of measurement devices. Note that a properly set and functioning collector not only minimizes the energy losses on the power transmission (catenary versus collector), but also eliminates wear of the carbon strips, or can prevent even larger failures as tearing down the catenary due to poor condition of the collector. Together all this contributes to a higher efficiency and safety in the railway transport.

