



**Rosseti  
Lenenergo**

*28.04.2021* № *ASL/04/1306*  
№ 27523 23.03.2021

Vyborg electrical grids  
Rosseti Lenenergo, LLC  
188800, Leningrad region,  
Vyborg, Severnyi val, 5  
www.lenenergo.ru

ATTN: O.N. Ekaterinina  
Director General  
of SKB EP, LLC

Responding to your letter № 27523 from 03/23/2021 with a request for feedback on the instrument, we can inform:

1. Since 2008 our branch has been operating five high-voltage circuit breaker analyzers of PKV/M7 type and three micro-ohmmeters of MIKO-10 type.
2. With a help of these instruments we check: HV circuit breakers of such types as VMG-133, VMG-145, Siemens LTB-145; VMP-10 etc. and the contact resistance of control modules.
  - PKV/M7 is convenient because it has position transducers which are suitable for drivers that are listed above. Also, it is easy to use PKV/M7, its display is clear and size is small. An additional advantage is that the memory of the instrument is programmed by drivers' and HV circuit breakers' parameters' templates, which are in operation in our enterprise.
  - MIKO-10 is convenient due to its small size. It keeps the battery charge for a long time. It is used for measuring the contact resistance of disconnecting switches of the following types: RZD-N 0, RZD-35, RLND-35 and helps quickly control equipment defects. Moreover, it allows to analyze the increase of contact resistance.
3. The instrument provides a complete picture of drive`s technical state and qualitatively measures parameters of its contact part.
4. Monitoring instruments for high-voltage circuit breakers revealed a non-simultaneous commutation in three-pole circuit breakers of the VMG-10 type with a PP-67 drive, during the repair program in 2021. That is why the defect was promptly eliminated and we prevented a serious technical problem.

Acting Director of Branch

D.A. Vorobtsov