



АКЦИОНЕРНОЕ ОБЩЕСТВО
СЕВЕРНОЕ ПРОИЗВОДСТВЕННОЕ ОБЪЕДИНЕНИЕ
арктика



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Review of instruments operation

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Dear Olga Nikolaevna!

In response to the request for review of the instrument operation on your ref. No.32980 of 19.10.2021, I inform you the following:

Currently, SPO Arctic, JSC uses three types of measuring instruments manufactured by SKB EP, LLC: low/high resistance meter MIKO-2.3, micro-ohmmeters MIKO-1, milli-ohmmeter MIKO-8 (six pieces in total). For more than 10 years, these measuring instruments have been operated at a manufacturing facility without complaints.

With the help of MIKO-2.3 and MIKO-8, the ohmic resistance of windings of DC and AC electric machines with a capacity of up to 500 kW is measured, as well as the ohmic resistance of rheostat stages. The measuring instruments are quite convenient and functional in operation. The presence of a built-in battery (MIKO-2.3) allows you to take measurements distantly. Light weight simplifies transportation (carrying).

Electrical resistance measurement with the ammeter-voltmeter method is the most precise method of measurement. The instrument significantly speeds up the process in comparison with another method of measuring resistance by assembling an electrical circuit from a voltage (current) source, a rheostat and from measuring devices of a magnetic-electric system.



The possibility of automatic recalculation of the measured linear resistance values of three-phase windings into a phase value when we connect to a star or triangle is impressive, as well as the changing of measurement results to the calculated temperature of windings.

With the help of MIKO-2.3 and MIKO-8, turn-to-turn short circuits or breakage of windings of electric machines are detected, as well as increased contact resistance of contact connections (poor compression, pollution of contact surfaces).

SPO Arctic, JSC thanks your company for convenient and effective equipment and is waiting for new products.



ДОКУМЕНТ ПОДПИСАН
ЭЛЕКТРОННОЙ ПОДПИСЬЮ

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Chief metrologist

I.L.Grigoriev