

**TECHNOLOGY
PRODUCTS**



TRANSFORMER OLTC DIAGNOSTIC SYSTEM

SKB  **EP**®



PKR-2 and PKR-2M

The device is available in two versions : PKR-2 and PKR-2M

Mode of non-demountable diagnostics (the DRM method) allows checking the technical condition of OLTCs with current-limiting resistors without removing the contactor tank cover. The mode is based on the DRM method and consists in measuring the current amplitude through the winding in which the OLTC is located. This diagnostic allows obtaining contactor switching oscillograms for a wide range of switching devices, except for the reactor type.

Oscillography of switching of resistor type OLTC contactor allows identifying delays in operation, non-simultaneous actuation of phases, bouncing at switching.

For recording of the circular diagrams, these devices are equipped with a special transducer. It can interface with shafts of various drives, provided by a set of axles and bushings, while their installation is carried out without the use of any tool by simply placing on the length of shaft protrusion.

Oscillography and circular diagrams are recorded for three phases simultaneously. Working with the instrument will not require any connection of additional elements; all adjustments to the particular OLTC are done automatically.

With the help of instruments, reactor type OLTC under static conditions can be checked. The user slowly rotates the drive shaft with the handle, and the display shows in real time contact closings/openings in degrees and voltage and current values.

The measurement results are stored in the non-volatile memory of the instruments, or on an external Flash drive, or they can be transferred to a PC or laptop. To present information in graphical or tabular form, the devices are equipped with a large colour touch-screen.

For convenience of direct connection to the OLTC contacts (without using the DRM method), when there is a partial or full oil discharge, the instruments are fitted with special long probes.

General Features

- **Measurement range of time:** 0.01 - 1 200 sec
- **Accuracy Resolution:** ± 0.1 ms
- **Measuring range of angular movement:** 2° - 360°
- **Accuracy:** $\pm 0.56^{\circ}$
- **Measuring range of DC current:** 1 - 4 A
- **Measuring range of DC electric voltage:** 1 - 20 V
- **Measuring range of DC electrical resistance:** 1 - 20 Ω
- **Accuracy:** ± 5 %
- **Sampling frequency of resistance measurement per channel:** 10 ± 0.1 kHz
- **Maximum circular diagram registration time:** 20 min
- **Maximum DRM oscillogram registration time:** 20 min
- **Power supply (built-in battery) of PKR-2M:** Lithium-ion battery
- **Battery charging time of PKR-2M:** 2.5 h
- **Battery runtime (in continuous operation) of PKR-2M:** 2 - 8 h
- **PC connection:** USB and USB host
- **Display:** TFT color graphic touch, 640 x 480 pixels



- **Power consumption in standby mode:** < 15 W
- **Power consumption in measurement mode:** < 210 W
- **Power supply (mains voltage):** ~ 150-242 V, 47-63 Hz = 150-300 V
- **Dimensions:** 360 × 290 × 165 mm
- **Weight of PKR-2 / PKR-2M:** 5.1 / 6.1 kg
- **Environmental protection:** IP 64 (device cover closed)/IP 20 (device cover open)
- **Operating temperature range from -20°C to +40°C**
- **Warranty period:** 3 years
- **Recommended calibration interval:** 3 years
- **Interface and user manual language:** English

Standard Complete Set:

- Accompanying documents
- Main instrument PKR-2 or PKR-2M
- Test cable (3 pcs) complete with connector
- Short-circuit cable with crocodile type clamps (PKR-2M)
- Angular movement transducer DP22
- C-clamp
- Handle for the OLTC shaft rotation
- Axis No. 10 together with a bushing
- Mains cable
- Ground cable
- Fuses VP2B-1V-2A (2 pcs)
- Bag for transporting the device and accessories

* Optional accessories on request



Over 35 Years of Industry Experience



At Technology Products, we are a premier manufacturer and supplier of cutting-edge Electrical Testing, Measuring, and Safety Equipment, with capabilities up to 800 KV. Our expertise extends beyond equipment design and manufacturing to offering solutions for Electrical Safety and Testing—from concept to commissioning. Trust us to deliver precision, safety, and innovation in every project.





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