

	PKV/U3.0	PKV/M7	TM-1800 Megger
Price (Euro)			
TYPES OF TESTED CIRCUIT BREAKERS			
Oil	✓	✓	✓
Vacuum	✓	✓	✓
SF6	✓	✓	✓
Electromagnetic	✓	✓	✓
Air	✓	✗	✓
GENERAL SPECIFICATIONS			
The number of channels for travel control by resistance transducers	12	1	No data
Availability of galvanic isolation (Allows neglecting the side of high-voltage breaker earthing)	✓	✓	✓
Range of ambient temperature , °C	-15...+40	-15...+40	0...+50
Power voltage, V			
- AC, 50/60 Hz	100 - 242	100 - 242	100 - 240
- DC	100 - 340	100 - 300	✗
Size, mm	300x140x400	360x290x165	515x173x452
Weight, kg	8	7	15.5
FUNCTIONS			
Control of linear travel of movable elements of a pole drive	✓	✓	✓
Control of angular travel of movable elements of a pole drive	✓	✓	✓
Air CB valve stroke test using resistance transducers	✓	✗	No data
Test of travel and speed parameters for three phases simultaneously	✓	✗	✓
Automatic conversion of angular sensor data into contacts travel and speed parameters (under lack of travel control by a linear sensor)	✓	✓	No data
Control of performances of electric magnets of circuit breaker control	✓	✓	✓
Voltage control of an uninterruptable power supply network in the mode of breaker commutation; check of batteries condition in the uninterruptable power supply network	✓	✓	No data
Life tests of circuit breakers (to be performed at works of HV circuit breaker manufacturers)	✓	✓	✓
Determination of pole contacts position	✓	✓	✓
Calculation of contact delay timing	✓	✓	✓
Contact bounce calculation	✓	✓	✓
At actuation by the external "remote signal" of the breaker drive			

Time control of ON/OFF contacts	✓	✓	No data
Control of movable contacts speed and travel	✓	✓	No data
At actuation by internal "local signal" of the instrument			
Time control of ON/OFF contacts	✓	✓	No data
Control of movable contacts speed and travel	✓	✓	No data
Requirements to circuit breaker tests			
Testing the trip-free switching device of CB in the programmable complex cycles OFF-ON, ON-OFF, OFF-ON-OFF	✓	✓	✓
Multiple tests of circuit breakers	✓	✓	✓
Test of minimum voltage of circuit breakers operation	together with PUV-controller	together with PUV-controller	No data
SPECIFICATIONS			
Time of measurement, sec	0.001 ... 8	0.001 ... 5.2	0 ... 200
Error of measuring the time intervals, msec	±0.1 ... ±0.3	±0.1	± (0.0001Xmeasurements+1 dgt)
Range of speed measurements, m/sec	0.002 ... 20	0.002 ... 20	No data
Error of speed measurement by linear travel sensor, %	±2	±2	No data
Range of linear travel measurements, mm	±0.5 ... 900	±0.5 ... 900	No data
Discrete nature of linear travel measurements, mm	0.5	0.5	No data
Range of angle travels measurements	±0.09 ... 360°	±0.09 ... 360°	No data
Discrete nature of measuring the angular travels	0.09°	0.09°	No data
Analog-digital converter			
Availability of connections for clamp meters	✓	✓	No data
Connection of an external shunt for accurate measurement of current amperage	✓	✗	✓
Commutator block			
Ability to form complex automatic reclosure cycles: OFF-ON, ON-OFF, OFF-ON-OFF	✓	✓	✓
Ability to commute and control double automatic reclosure cycles: OFF-ON-OFF - pause - ON, OFF-ON-OFF - pause - ON-OFF	✓	✓	✓
Maximum commutated current	35 A	15 A	Integrated block B10E with AT (autotransformer)
USER'S INTERFACE			
Integrated measurement templates to facilitate the instrument adjustment to specific models of circuit breakers	✓	✓	✓
Ability to make your own template for circuit breaker measurements	✓	✓	✓
Availability of a thermal printer			
For printing the results of measurements and constructing the curves for analysis of the results without using a notebook	✗	✗	✓
Availability of a color graphic display	✗	✗	✓

For entering the instrument settings and for overall technical analysis of data and curves of measurements without using the notebook			
Interface for data control and transfer			
Data base storage in the instrument memory	✗	✓	✓
USB host for data base transfer to the external USB FlashDrive.	✗	✓	✓
RS-232 for connecting to COM port	✓	✓	✓
LAN for connection to the local network or to PC at large distances	✓	✓	✓
Computer software			
Independent operation of the instrument (without a notebook)	✗	✓	✓
Instrument manipulation from PC	✓	✓	✓
Technical analysis of tabular and graphic data (cursors, scaling, curves adjustment, automatic computation of parameters)	✓	✓	✓
Curves overlapping function for visual analysis of differences in the data obtained	✓	✓	No data
Automatic development of reports and support of reports base	✓	✓	✓
Archiving the changes in PC and support of different data bases	✓	✓	✓
Export of tabular data to Excel	✓	✓	No data
Check of contacts position with primary resistors	✓	✗	✓