

ACTAS



ACTAS P3

Compact Breaker Analyser

ACTAS P3 is the versatile compact solution for carrying out automatic tests on high-voltage and medium-voltage switchgear equipment.

Used as a stand-alone device, **ACTAS P3** can determine operating times simply and reliably. Connecting a PC to the **P3** gives the user access to a wide range of test methods which cannot be provided by other devices of this class.

ACTAS P3 is exceptionally well-equipped. Standard features include control outputs for external voltage sources and inputs for incremental travel sensors.

Used in conjunction with the latest version of the **ACTAS** test software, this compact test system is a competitively priced starter product providing entry to the premier league of breaker test technology.



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Developed as a compact device for measuring operating times, ACTAS P3 is the latest in a long line of professional test instruments belonging to the ACTAS range. Based on the innovative technology of the successful ACTAS breaker test systems, ACTAS P3 is small, light and extremely powerful.

Ergonomic Operation

The front panel of ACTAS P3 is equipped with an LCD screen and four function keys. An ergonomically designed jog dial is used to navigate through the menus and make configurations. All the connections for the test object are located on the back panel.

Switching operations can be triggered via menu commands

which activate the control outputs. The clear graphical display shows the individual operating times for all the binary inputs as the test result. This means that above and beyond being used to carry out switchgear tests, ACTAS P3 can also serve as a universal timer.

Switchgear Tests

In addition to close and open operations, a number of other predefined switching operations are available for switchgear tests, including CO, OC or O-t-CO switching sequences, to mention but a few examples. Main contact measurement does not only cover the contact times but also includes a number of additional results such as contact synchronicity and bounce times.

ACTAS Test Software

A PC or laptop computer can be connected directly to ACTAS P3 making it possible to operate and control the test instrument and evaluate tests using the powerful ACTAS test software as well. New test jobs can then be configured simply and easily with the aid of switchgear templates; the switching commands of the control outputs can be configured individually. In addition to the binary signals, analog quantities such as the coil current can also be recorded and displayed graphically in the programme.

Equipment

ACTAS P3 comes complete with an input for connecting an incremental travel sensor which

can be used to measure drive travel, for example.

An analog output for controlling an external voltage source is also provided as a standard feature. In addition to determining the response of the switchgear device at nominal voltage, this allows operating times to be measured at the minimum and maximum permissible operating voltages, for example. All the test instructions required for this purpose can be grouped together in a test plan and run fully automatically.

Control outputs	1 x Closing coil, 1 x Opening coil	Operating accuracy < 1 µs
Analog measurement inputs	1 x Coil current	Can only be used with ACTAS test software
	1 x Incremental travel sensor	
Analog outputs	1 x Analog output (0 to 10 V)	Control output for external voltage source
Binary measurement inputs	3 x 2 Main contacts	Operating point < 30 Ω
	3 x 2 Resistive contacts	Operating point 30 Ω to 10 kΩ
	4 x 2 Auxiliary contacts	Operating point 24 to 300 VDC
Operation	Membrane keypad with 4 function keys, jog dial, PC	
Display	Alphanumeric LCD, 4 x 20 characters	
Housing (WxHxD) [mm]	158 x 130 x 272	ABS plastic
Weight [kg]	2.5 kg	

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