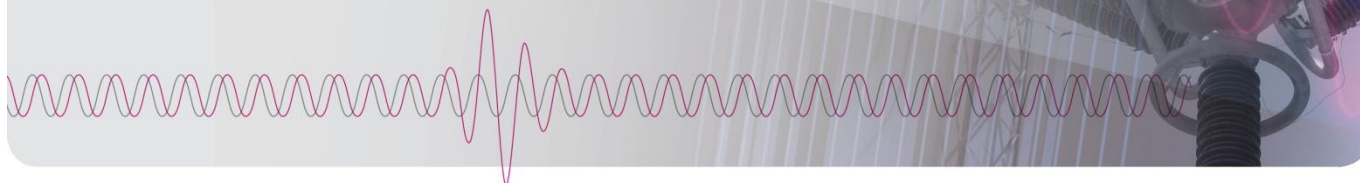


ACTAS L260 | L360

SPECIFICATIONS



System concept High-precision test systems for function tests on various types of switchgear device, including circuit breakers, disconnectors or earthing switches, regardless of the type of drive unit. The inputs and outputs are connected flexibly via industrial plug connectors, making the test systems particularly suitable for use in development and laboratory environments as well as in production environments. Digital and analog control outputs enable voltage or current sources to be controlled automatically, allowing fully automatic tests. In combination with PROMET, three-pole dynamic resistance measurements can be carried out on up to four interrupter units per pole.

Control outputs Electronic switching outputs (IGBT) for single or three-phase control of the closing and opening coils. All operating sequences can be configured and output in increments of 1 ms.

IGBTs for controlling the release coils	Voltage	300 VAC/DC	
	Current	100 A peak	Intrinsically safe via short-circuit and overload protection
	Time resolution	0.1 ms	
	Accuracy	±0.02 ms	
Binary output	Relay output	30 VDC / 2 A (resistive load)	(max. 220 VDC)
Analog outputs for controlling external voltage sources	Analog outputs to set the desired values and the voltage waveform and to release connected sources.		
	Output range	0...10 VDC / 1 mA	Load impedance >10 kΩ
Power supply to external sensors	Reference voltage for analog sensors	10 VDC	
	Supply voltage for incremental sensors	5 VDC or 10 VDC, can be selected via jumper	

Measurement inputs

General

Recording duration	Max. 13.33 min at 500 Hz, Max. 8 s at 50 kHz
Time resolution	0.02 ms
Time accuracy	±0.005 ms
A/D-conversion	16 bit
Accuracy	0.05% of range

Analog inputs

Oversampling	200 kHz per measurement channel (physical)
Sampling rates	500 Hz...50 kHz, adjustable in steps
Activation range	Main contacts <5 Ω Resistive contacts (PIR) >5 Ω...12 kΩ combined with main contact inputs
Measuring range close/open coil current	5 ADC / 30 ADC / 100 A peak
Coil voltage	300 VAC/DC
Measuring range motor	20 A RMS/ 50 A RMS/ 100 A peak
Motor voltage	500 VAC/DC
Sensor inputs	±20 mA ±10 VDC
Protection	Galvanic isolations 2.5 kV, device isolated against earth Galvanic isolations 2.5 kV, all measurement inputs isolated against earth

Binary inputs

Time resolution	0.02 ms
Sampling rate	50 kHz
Activation range	24...300 VDC, adjustable
Auxiliary contacts	External supply, activation range configurable

Incremental inputs for digital travel transducers

Limit frequency	200 kHz
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Complete system	Operation, system control, data storage and evaluation are carried out using a standard, external Windows PC with the ACTAS 2.60 software.		
	User interface	ACTAS system software for the parameterization, execution and evaluation of switchgear tests under Windows 7/8.1/10	
	Power supply	Wide-range power supply unit, nominal range 100...250 VDC and 90...250 VAC; 47...63 Hz working range: +6% / -10% of the nominal range	
	Measurement connections	Via safety plug connectors located on the back panel	
	PC interfaces	1 x RJ45 Ethernet 1 x serial RS422	
	KoCoS interfaces	4 x control of external devices	
	Environment	Operating temperature Storage temperature Relative humidity Protection	-10...50°C -30...70°C 5...90% non-condensing IP20
	CE conformity	EN 61010-1: 2011 Safety requirements for electrical equipment for measurement, control, and laboratory use EN 61326-1: 2013 Electrical equipment for measurement, control and laboratory use - EMC requirements	
Product specifications			
		ACTAS L260	ACTAS L360
Control outputs	Closing coils	1	3
	Opening coils	2	6
	Relay control outputs	2	6
	Analog control outputs 0...10 VDC	2	4
Analog measurement inputs	Coil current	3 x (I/O)	9 x (I/O)
	Coil/station voltage	1	3
	Motor current via shunt	1	3
	Motor voltage	1	3
	Sensor (dig./inc.)	3	6
	Sensor (+/-10 V)	3	6
	Sensor (0...20 mA)	1	2
	Main and PIR contacts	3 x 2	9 x 2
Binary measurement inputs	Auxiliary contacts	2 x 4	6 x 4
Reference voltage for external sensors	1 x 10 VDC / 200 mA		2 x 10 VDC / 200 mA
Connections for additional equipment	PC	1	1
	PROMET/voltage sources	3	3
	CSW 3	1	1
Housing	19" housing for rack mounting, 84 HP, 6 U		
	Dimensions (W x H x D)	482.6 mm x 265.9 mm x 242.0 mm	
	Weight	6.3 kg	7.3 kg