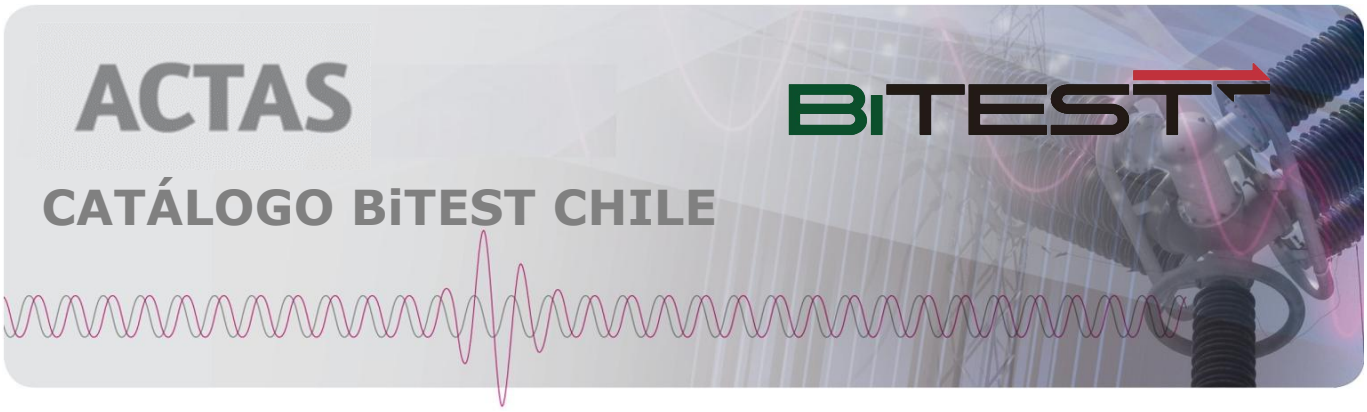


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ACTAS BTT / ACTAS P

Test Systems

Timing Analyser ACTAS BTT 2.0 00007486



Battery-operated, hand-held measuring device for the determination of operating times and coil currents as well as contact synchronicity for low-, medium and high voltage switchgear, relay contacts, contactors and switch disconnectors. It is designed for stand-alone operation or for operation with an Android smartphone. Test reports can be generated, saved and sent using a smartphone.

Scope of delivery: 1 x cable set for ACTAS BTT 7m long, incl. adapter cable, 4 x series terminal adapters, and 4 x red battery clamps, 1 x black battery clamps, charger incl. mains adapter, device bag, BTT app.

Switchgear Test System ACTAS P260+ 00007429



Portable stand-alone test system for 3-pole function tests on various types of switchgear. The system is operated using the touch control panel on the device itself or via remote control with an external PC or a web browser.

Control outputs: 1 x closing and 2 x opening coil, 4 x external device.

Measurement inputs: 1 x closing and 2 x opening coil current, 1 x operating voltage, 1 x motor current via shunt, 1 x sensor (20 mA/10 V), 3 x sensor (incremental/10 V), 3 x 2 main and PIR contacts, 2 x 4 auxiliary contacts, 1 x 1 Relay.

Scope of delivery: ACTAS Expert software, data cable RJ45, data cable USB A-B, power cord, user manual (PDF).

Switchgear Test System ACTAS P360+ 00007425



Portable stand-alone test system for 3-pole function tests on various types of switchgear. The system is operated using the touch control panel on the device itself or via remote control with an external PC or a web browser.

Control outputs: 3 x closing and opening coil, 4 x external device.

Measurement inputs: 3 x closing and 3 x opening coil current, 3 x operating voltage, 1 x motor current via shunt, 3 x sensor (20 mA/10 V), 6 x sensor (incremental/10 V), 6 x 2 main and PIR contacts, 3 x 4 auxiliary contacts, 2 x 1 Relay.

Scope of delivery: ACTAS Expert software, data cable RJ45, data cable USB A-B, power cord, user manual (PDF).

Test Sets

Test Set ACTAS P260+ SCS-5 WDG

00007465

Complete test set for 3-pole function tests on various types of switchgear with ACTAS P260+.

Scope of delivery: ACTAS P260+ switchgear test system incl. ACTAS Expert software and accessories, cable set SCS P260-5, single-pole digital rotary transducer set WDG 58A.



Test Set ACTAS P360+ SCS-20 3-WDG

00007467

Complete test set for 3-pole function tests on various types of switchgear with ACTAS P360+.

Scope of delivery: ACTAS P360+ switchgear test system incl. ACTAS Expert software and accessories, cable set SCS P360-20, three-pole digital rotary transducer set WDG 58A.



Accessories

Remote Control Function for ACTAS P x60

00006624

For remote control of ACTAS P x60 with a smartphone, tablet or laptop or via a wireless LAN connection.

Scope of delivery: wireless adapter, portable, battery-operated hotspot.



Cable sets

Cable set SCS P260-5 for ACTAS P260+

00007434

Cable set including accessories for connecting an ACTAS P260+ to a switchgear.

Scope of delivery: 3 x main contact cable 5 m, 1 x I/O-coil cable 5 m, 1 x auxiliary contact cable 5 m, 1 x universal voltage measurement cable 5 m, 1 x motor current measurement cable 5 m, 4 x measuring lead 4 mm safety plug 20 cm, 6 x screw clamp, 3 x battery clamp red, 3 x battery clamp black, 10 x terminal adapter, 9 x 4 mm safety adapter, transport bag.



Cable set SCS P260-20 for ACTAS P260+

00007436

Cable set including accessories for connecting an ACTAS P260+ to a switchgear.

Scope of delivery: 3 x main contact cable 20 m, 1 x I/O-coil cable 10 m, 1 x auxiliary contact cable 10 m, 1 x universal voltage measurement cable 10 m, 1 x motor current measurement cable 10 m, 4 x measuring lead 4 mm safety plug 20 cm, 9 x screw clamp, 6 x battery clamp red, 3 x battery clamp black, 10 x terminal adapter, 9 x 4 mm safety adapter, transport bag.



Cable set SCS P360-20 for ACTAS P360+

00007438

Cable set including accessories for connecting an ACTAS P360+ to a switchgear.

Scope of delivery: 3 x main contact cable 20 m, 3 x I/O-coil cable 10 m, 3 x auxiliary contact cable 10 m, 2 x universal voltage measurement cable 10 m, 1 x motor current measurement cable 10 m, 8 x measuring lead 4 mm safety plug 20 cm, 9 x screw clamp, 6 x battery clamp red, 3 x battery clamp black, 20 x terminal adapter, 9 x 4 mm safety adapter, 2 x transport bag.



Connection Cables and Adapters

Connection cable 10 m for analog/digital travel sensors for ACTAS P x60 — 00006617

Cable for the connection of analog (+/-10 V; 0…20 mA) and digital travel sensors to ACTAS P x60. The supply / reference voltage is provided to the sensor via the cable. One end has a coded 7-pole push-pull plug with a green marking ring for connection to the test instrument, the other end is open for connection to the sensor.



Connection cable 10 m for analog travel sensors for ACTAS P x60 — 00006618

Cable for the connection of analog (+/-10 V; 0…20 mA) travel sensors to ACTAS P x60. The supply / reference voltage is provided to the sensor via the cable. One end has a coded 7-pole push-pull plug with a blue marking ring for connection to the test instrument, the other end is open for connection to the sensor.



Customer-specific sensor plug for ACTAS P and C — 00006188

Plug with pin assignment in accordance with customer requirements for the sensor end of the connection cable for analog/digital travel sensors (#00006617) incl. assembly. The cable itself is not included in the scope of delivery.



Auxiliary contact cable Aux 5-8, length 5 m for ACTAS P260+ — 00007114

Auxiliary contact cable, 5 m long, one end of the cable is fitted with 4 mm safety plugs for connection to the switchgear device. The cable is used to connect auxiliary contacts 5-8 to ACTAS P260+.



Auxiliary contact cable Aux 5-8, length 10 m for ACTAS P260+ — 00007113

Auxiliary contact cable, 10 m long, one end of the cable is fitted with 4 mm safety plugs for connection to the switchgear device. The cable is used to connect auxiliary contacts 5-8 to ACTAS P260+.



Main contact cable set 20 m for ACTAS P360+ — 00007108

Cable set for connecting 3 switchgear poles to the connection socket Main 3+4.
One end has a coded push-pull plug for connection to the test instrument, the other end has 4 mm safety plugs for connection to the switchgear.
Scope of delivery: 3 main contact cables 20 m.



Sensor adapter 10 V to 5 V for ACTAS P x60 — 00006630

Adapter for connecting incremental sensors with a supply voltage of 5 V to ACTAS P x60 test instruments.



Sensor adapter 5-pole to 7-pole for ACTAS P x60 — 00006629

Adapter for connecting analog sensors of ACTAS P6/P14/P22 test instruments to the sensor inputs of the ACTAS P x60 test instruments.



Sensor adapter 10-pole to 7-pole for ACTAS P x60 — 00006628

Adapter for connecting digital sensors of ACTAS P3/P6/P14/P22 test instruments to the sensor inputs of ACTAS P x60 test instruments.



Sensor adapter to 4 mm safety sockets for ACTAS P x60 — 00007207

Adapter for connecting an analog sensor with 4 mm safety plugs to an ACTAS P x60 test system. The adapter consists of a connection box with 4 mm safety sockets and a 30 cm long connection cable with 7-pole plug for the sensor input (green socket) on the test system.



Sensors

Single-pole analog rotary transducer set IP 6501 for ACTAS P x60 — 00006606

Transducer for single-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 1 x analog rotary transducer, 1 x articulated stand with base clamp and fine adjustment, 1 x transducer holding bracket, 1 x coupling, 1 x adapter set for common thread sizes, 1 x mounting adapter, 1 x connection cable 10 m, carrying case.



Three-pole analog rotary transducer set IP 6501/3 for ACTAS P x60 — 00006607

Transducer for three-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 3 x analog rotary transducer, 3 x articulated stand with base clamp and fine adjustment, 3 x transducer holding bracket, 3 x coupling, 3 x adapter set for common thread sizes, 3 x mounting adapter, 3 x connection cable 10 m, carrying case.



Single-pole digital rotary transducer set WDG 58A for ACTAS P x60 — 00006608

Transducer for single-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 1 x incremental rotary transducer (3600 pulses/revolution), 1 x articulated stand with base clamp and fine adjustment, 1 x transducer holding bracket, 1 x coupling, 1 x adapter set for common thread sizes, 1 x mounting adapter, 1 x connection cable 10 m, carrying case.



Three-pole digital rotary transducer set WDG 58A/3 for ACTAS P x60 — 00006609

Transducer for three-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 3 x incremental rotary transducer (3600 pulses/revolution), 3 x articulated stand with base clamp and fine adjustment, 3 x transducer holding bracket, 3 x coupling, 3 x adapter set for common thread sizes, 3 x mounting adapter, 3 x connection cable 10 m, carrying case.



Three-pole digital rotary transducer set WDG 58A/3 radial for ACTAS P x60 — 00007353

Transducer with radial connection for three-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 3 x incremental rotary transducer (3600 pulses/revolution), 3 x articulated stand with base clamp and fine adjustment, 3 x transducer holding bracket, 3 x coupling, 3 x adapter set for common thread sizes, 3 x connection cable 10 m, carrying case.



Single-pole digital rotary transducer IH581 for ACTAS P x60 — 00007484

Transducer for single-pole measurement of rotary movements on operating and drive shafts, incl. connection cable.

Scope of delivery: 1 x incremental rotary transducer (1024 pulses/revolution), 1 x connection cable 10 m.



Holder with magnetic base for rotary transducer stand for ACTAS Px60 — 00007365

Holder with magnetic base for rotary transducer stand for ACTAS Px60 systems.
Connection thread M8 for fixing the articulated stand to the holder with magnetic base.

Scope of delivery: Holder with magnetic base



Mounting tool for rotary encoders — 00147713

Scope of delivery: Mounting tool for rotary encoders



Single-pole analog linear transducer set LWG 150 for ACTAS P x60 — 00006616

Transducer for single-pole measurement of linear movements on operating and drive rods.

Scope of delivery: 1 x linear transducer 150 mm, 1 x connection cable 10 m, carrying case.



Three-pole analog linear transducer set LWG 150/3 for ACTAS P x60 — 00006610

Transducer for three-pole measurement of linear movements on operating and drive rods.

Scope of delivery: 3 x linear transducer 150 mm, 3 x connection cable 10 m, carrying case.



Single-pole analog linear transducer set LWG 600 for ACTAS P x60 00007319

Transducer for single-pole measurement of linear movements on operating and drive rods.
Scope of delivery: 1 x linear transducer 600 mm, 1 x connection cable 10 m.



Single-pole analog linear transducer set TLH 750 for ACTAS P x60 00007389

Transducer for single-pole measurement of linear movements on operating and drive rods.
Scope of delivery: 1 x linear transducer 750 mm, 1 x connection cable 10 m.



Single-pole analog linear transducer set TS 50 for ACTAS P x60 00006611

Transducer for single-pole measurement of linear movements on operating and drive rods.
Scope of delivery: 1 x linear transducer 50 mm, 1 x connection cable 10 m, carrying case.



Three-pole analog linear transducer set TS 50/3 for ACTAS P x60 00006612

Transducer for three-pole measurement of linear movements on operating and drive rods.
Scope of delivery: 3 x linear transducer 50 mm, 3 x connection cable 10 m, carrying case.



Three-pole analog linear transducer set TS 100/3 for ACTAS P x60 00007317

Transducer for three-pole measurement of linear movements on operating and drive rods.
Scope of delivery: 3 x linear transducer 100 mm, 3 x connection cable 10 m, carrying case.



Pressure transducer set GEMS 40 for ACTAS P x60 00006615

Transducer for measurement of pressures. Measuring range 0...40 bar, pressure connection ¼" NPT AG, supply voltage 12/24 VDC, accuracy 0.5%.
Scope of delivery: 1 x pressure transducer 0…40 bar, 1 x connection cable 10 m.



Current clamp 10/100 A peak L10 for ACTAS P x60 00007153

Active current clamp with switchable measuring ranges 7/70 AAC or 10/100 ADC for the measurement of direct and alternating currents, for connection to the analog sensor input.
Scope of delivery: 1 x current clamp, 1 x connection cable 10 m.



Current clamp set first trip 10/100 A peak L10 for ACTAS P x60 00007330

Current clamp set for measuring the main contact operating times and recording the coil currents for first trip measurements. Measuring range switchable 7/70 AAC or 10/100 ADC for the measurement of direct and alternating currents.
Scope of delivery: 4 x current clamp, 4 x connection cable 10 m.



Rogowski coil set GIS timing for ACTAS P x60 00007363

Rogowski coil set for measuring the operating times on gas-insulated switchgear installations.
Scope of delivery: 3 x Rogowski coil incl. connection cable 10 m.



AC/DC clamp set for GIS-SRM and DRM for ACTAS P x60 00007366

AC/DC current clamp set for static and dynamic resistance measurement on gas-insulated switchgear installations
Scope of delivery: 3 x current clamp incl. connection cable 10 m.





ACTAS L

Test Systems

Switchgear Test System ACTAS L260 00007135



High-precision test system 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 via flexible plug connectors. The 19" housing allows both stand-alone operation and installation in a system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Control outputs: 2 x opening coil, 1 x closing coil, 3 x PROMET, 1 x external extension box/voltage source, 2 x analog control output 0…10 V, 2 x relay

Analog/binary inputs: 3 x coil current, 2 x coil/station/motor voltage, 1 x motor current via shunt, 3 x external sensor (10 V), 1 x external sensor (20 mA), 3 x external sensor (dig./inc.), 3 x 2 main and PIR contacts, 2 x 4 auxiliary contacts

Scope of delivery: Ethernet cable, ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, ACTAS x60 Communication SW module

Switchgear Test System ACTAS L360 00007137



High-precision test system 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 via flexible plug connectors. The 19" housing allows both stand-alone operation and installation in a system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Control outputs: 6 x opening coil, 3 x closing coil, 3 x PROMET, 1 x external extension box/voltage source, 4 x analog control output 0…10 V, 6 x relay

Analog/binary inputs: 9 x coil current, 6 x coil/station/motor voltage, 3 x motor current via shunt, 6 x external sensor (10 V), 2 x external sensor (20 mA), 6 x external sensor (dig./inc.), 9 x 2 main and PIR contacts, 6 x 4 auxiliary contacts

Scope of delivery: Ethernet cable, ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, ACTAS x60 Communication SW module

Accessories ACTAS Lx60

Additional card Rel/U/I for ACTAS C160 and ACTAS L260 00007326



Additional card for ACTAS C160 and ACTAS L260.

2 x relay output, 1 x voltage measurement 500 V 1 x voltage measurement 300 V,
1 x current measurement 100 A peak

Additional card Sensor/DAC for ACTAS C160/CF80 and ACTAS L260 00007327



Additional card for ACTAS C160 /CF80 and ACTAS L260.

2 x DAC output 0…10 V, 3 x incremental sensor input, 3 x analog sensor input +/-10 V

1 x analog sensor input +/-20 mA

Additional card Main/Aux for ACTAS C160 and ACTAS L260 00007328



Additional card for ACTAS C160 and ACTAS L260.

2 x 4 auxiliary contact inputs

3 x 2 PIR main contact inputs

Additional cards I/O coil for ACTAS L260

Additional cards for ACTAS L260 3 x I/O coil 00007340



Scope of delivery: 3 x I/O coil card

Sensor distribution module for ACTAS C and L

Distribution module for DIN-rail mounting for splitting the four analog connections from one total to four individual plug connections.



00007351

Connector set Sensor/DAC card for ACTAS Lx60

Connector set for the preparation of connecting leads for connecting the device under test to a Sensor/DAC card of the ACTAS L test instrument.

Scope of delivery: 1 x DAC plug, 3 x inc. sensor plug, 1 x analog sensor plug



00007236

Connector set Main/Aux card for ACTAS Lx60

Connector set for the preparation of connecting leads for connecting the device under test to a Main/Aux card of the ACTAS L test instrument.

Scope of delivery: 2 x auxiliary contact plug, 3 x main contact plug



00007297

Connector set Rel/U/I card for ACTAS Lx60

Connector set for the preparation of connecting leads for connecting the device under test to a Rel/U/I card of the ACTAS L test instrument.

Scope of delivery: 2 x relay plug, 2 x voltage measuring plug, 1 x current measuring plug



00007316

Connector set coil cards for ACTAS Lx60

Connector set for the preparation of connecting leads for connecting the device under test to three coil cards of the ACTAS L test instrument.

Scope of delivery: 3 x coil plug

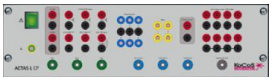


00007325

Connection panel 19" for ACTAS L

3U connection panel for 19" system cabinets for connecting inputs and outputs via 4 mm safety sockets and push-pull plug connections on the front of the system cabinet.

Scope of delivery: Connection panel, connecting leads for push-pull sockets 2 m long



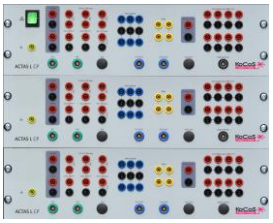
00007369

Connection panels 19" for ACTAS L360

3U connection panel´s for 19" system cabinets for connecting inputs and outputs via 4 mm safety sockets and push-pull plug connections on the front of the system cabinet.

Scope of delivery:

1 x connection panel 4 mm with connection cables for push-pull sockets 2 m long and power switch,
1 x connection panel 4 mm with connection cables for push-pull sockets 2 m long,
1 x connection panel 4 mm



00007424

Front handle 6U for ACTAS L

Front handle 6U for 19" subrack for mounting on an ACTAS L system.

Scope of delivery: 1 x front handle *6U*



00147170

Connection cable set 10 m for connecting analog transducers to ACTAS L

Shielded measurement cable, 10 m long, for connecting three analog transducer to ACTAS L test systems. The cables also provides the transducer with the reference voltage of 10 VDC supplied by the test system. One end of the cables are fitted with a coded 5-pole plug for connection to the test system; the other end of the cables has an open end for connection to the transducer.



00007395

Connection cable 10 m for connecting digital transducers to ACTAS L

Shielded measurement cable, 10 m long, for connecting a digital transducer to ACTAS L test systems. The cable also provides the transducer with supply voltages of 5 and 10 VDC. One end of the cable is fitted with a 6-pole plug for connection to the test system; the other end of the cable has an open end for connection to the transducer.



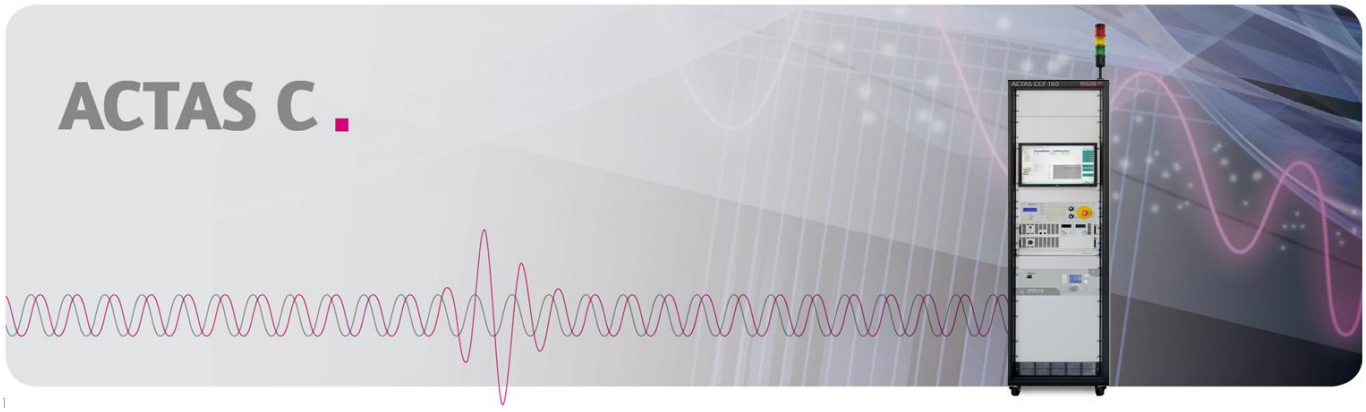
00007394

Sensor adapter to 4 mm safety sockets for ACTAS Cx60 and Lx60

Adapter for connecting an analog sensor with 4 mm safety plugs to an ACTAS Cx60 or Lx60 test system. The adapter consists of a connection box with 4 mm safety sockets and a 30 cm long connection cable with 8-pole plug for the sensor input (blue socket) on the test system.



00007439



ACTAS C

Test Systems

Stationary circuit breaker test system ACTAS C160 00007139

Stationary test system for carrying out fully automatic final factory tests, type tests and functional tests on switchgear devices. The test system is integrated in a 19" system cabinet, the inputs and outputs are connected via multi-pole industrial plug connectors on the back panel of the system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Scope of delivery: ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, user manual (PDF).



Stationary circuit breaker test system ACTAS C320 00007141

Stationary test system with extended number of measurement channels for carrying out fully automatic final factory tests, type tests and functional tests on switchgear devices. The test system is integrated in a 19" system cabinet, the inputs and outputs are connected via multi-pole industrial plug connectors on the back panel of the system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Scope of delivery: ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, user manual (PDF).

Stationary Drive Test System ACTAS CF80 00007318

Stationary test system for sequential final factory tests and function tests on up to 8 drive units of switch bays. The test system is integrated in a 19" system cabinet, the inputs and outputs are connected via multi-pole industrial plug connectors on the back panel of the system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Scope of delivery: ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, user manual (PDF).



Stationary circuit breaker test system ACTAS CCF160 00007324

Stationary test system for carrying out fully automatic final factory tests, type tests and functional tests on switchgear devices and on up to 8 drive units of switch bays. The test system is integrated in a 19" system cabinet, the inputs and outputs are connected via multi-pole industrial plug connectors on the back panel of the system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Scope of delivery: ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, user manual (PDF).



Stationary circuit breaker test system ACTAS CCF320 00007323

Stationary test system with extended number of measurement channels for carrying out fully automatic final factory tests, type tests and functional tests on switchgear devices and on up to 8 drive units of switch bays. The test system is integrated in a 19" system cabinet, the inputs and outputs are connected via multi-pole industrial plug connectors on the back panel of the system cabinet. The test system is controlled using the ACTAS 2.60 testing software.

Scope of delivery: ACTAS V 2.60 testing software, Data Interfaces SW module, Control & Automation SW module, Extended Testing & Analysis SW module, Statistics SW module, Extended Data Management SW module, user manual (PDF).

Additional cards

Additional card Rel/U/I for ACTAS C160 and ACTAS L260 00007326

Additional card for ACTAS C160 and ACTAS L260.

2 x relay output, 1 x voltage measurement 500 V 1 x voltage measurement 300 V,
1 x current measurement 100 A peak



Additional card Sensor/DAC for ACTAS C160/CF80 and ACTAS L260 00007327

Additional card for ACTAS C160 /CF80 and ACTAS L260.

2 x DAC output 0…10 V, 3 x incremental sensor input, 3 x analog sensor input +/-10 V

1 x analog sensor input +/-20 mA



Additional card Main/Aux for ACTAS C160 and ACTAS L260 00007328

Additional card for ACTAS C160 and ACTAS L260.

2 x 4 auxiliary contact inputs

3 x 2 PIR main contact inputs



Sensor distribution module for ACTAS C and L 00007351

Distribution module for DIN-rail mounting for splitting the four analog connections from one total to four individual plug connections.



Additional module Aux/Rel for ACTAS C 00007350

Additional module for ACTAS C, including adaptation of the circuit diagram and wiring in the cabinet.
12 auxiliary contact inputs, 4 relay outputs, 2 relay outputs potential-free



Sources

Motor power supply unit EPOS CV 821 00007078

AC/DC voltage source with variable voltage transformer for powering ohmic and inductive loads. The voltage setting can be made either manually or automatically in the ACTAS software. Power 8100 VA, voltage 0...270 VAC/300 VDC, max. continuous current 30 A, dimensions: 19"/4 U.



Motor power supply unit EPOS CV 831 00007361

AC/DC voltage source with variable voltage transformer for powering ohmic and inductive loads. The voltage setting can be made either manually or automatically in the ACTAS software. Power 11,500 VA, voltage 0...270 VAC/300 VDC, max. continuous current 40 AAC / 30 ADC, dimensions: 19"/8 U.



Motor power supply unit EPOS CV 753 00006222

Three-phase AC/DC voltage source with variable voltage transformer for powering ohmic and inductive loads. The voltage setting can be made either manually or automatically in the ACTAS software. Power 22,500 VA, voltage 15...300 VACPN/300 VDC, max. continuous current 25 AAC/32 ADC, dimensions: 19"/18 U.



Universal power supply unit EPOS CV 201 00005270

Electronic AC/DC voltage source. The voltage and frequency setting can be made manually on the device or automatically with an ACTAS test system.

Power: 2000 VA, voltage: 5...270 VAC/300 VDC, max. current: 40 A

Dimensions 19"/4 U



Coil current power supply unit PS CE D151-15-1HE 00007355

Electronic DC voltage source. The voltage setting can be made either manually or automatically in the ACTAS software. Voltage: 0...360 V, current: 0…15 A, power: 1500 W max., dimensions (W x H x D): 19" x 1 U x 463 mm

Coil current power supply unit PS CE D301-30-1HE 00007356

Electronic DC voltage source. The voltage setting can be made either manually or automatically in the ACTAS software. Voltage: 0...360 V, current: 0…30 A, power: 3000 W max., dimensions (W x H x D): 19" x 1 U x 463 mm

Universal power supply unit PS CE AD21-3 00006373

Electronic AC voltage source. The voltage and frequency setting can be made either manually or automatically in the ACTAS software. Power: 250 VA, voltage: 0...300 VAC / VDC, current: 3 A, dimensions: 19", 4 U

Universal power supply unit PS CE AD051-6 00006372

Electronic AC voltage source. The voltage and frequency setting can be made either manually or automatically in the ACTAS software. Power: 500 VA, voltage: 0...300 VAC / VDC, current: 6 A, dimensions: 19", 4 U

Universal power supply unit PS CE AD101-10 00006197

Electronic AC voltage source. The voltage and frequency setting can be made either manually or automatically in the ACTAS software. Power: 1000 VA, voltage: 0...300 VAC / VDC, current: 10 A, dimensions: 19", 6 U

Universal power supply unit PS CE AD201-15 00005217

Electronic AC voltage source. The voltage and frequency setting can be made either manually or automatically in the ACTAS software. Power: 2000 VA, voltage: 0...300 VAC / VDC, current: 15 A, dimensions: 19", 6 U

Protective separation and voltage adjustment EPOS CIT 631 S 00006216

Isolating transformer for safe system decoupling and voltage adjustment to the operating voltage of 230 V, automatic limitation of switch-on current, specially adjusted and adapted for use with the EPOS CV AC/DC power source, primary voltage: 200/220/230/277 VAC, secondary voltage: 230 VAC, power: 6300 VA, weight: 50 kg

Single-pole heating system power supply unit HCIT 061-1 for ACTAS 00006227

Heating system power supply unit for supplying power to and testing the current consumption of anti-condensation heaters with one heating circuit. The heating circuit voltage can be switched between 115 VAC and 230 VAC in the ACTAS software. Output voltage: 115 / 230 V, power: 630 VA

Three-pole heating system power supply unit HCIT 061-3 for ACTAS 00006737

Heating system power supply unit for supplying power to and testing the current consumption of anti-condensation heaters with three heating circuits. The heating circuit voltage can be switched between 115 VAC and 230 VAC in the ACTAS software. The three heating circuits can be switched separately. Output voltage: 115 / 230 V, power: 630 VA

5 kV insulation tester for ACTAS C systems 00006113

19" rack-mount high-voltage source and its integration in stationary ACTAS C systems. Test voltage: 0.1 ... 2.5 / 0.2 … 5 kV AC, operating current: 0..1/10/100 mA AC. A touch screen control panel incorporated in the high-voltage source is used to set the required test parameters. The test is controlled and evaluated fully automatically by the ACTAS testing software via binary signals.

Scope of delivery: A pair of open-ended high voltage cables, length 10 m, a pair of high voltage cables with safety test pistols, length 6 m, a warning light in accordance with EN50191, designed as a signal column

Accessories

Operation unit for 19" rack mounting 00006932



The operation unit consists of a 19" touch screen monitor and a robust industrial PC and comes pre-mounted on a 19" mounting plate. Included in the scope of delivery is an industrial keyboard with touch pad which is integrated in a slide-out drawer and is available in German, US International and French country versions. Industrial DIN rail power supply units with extended range inputs supply the PC and monitor with power.

Remote control unit for ACTAS C systems 00006800



Remote control with four buttons for manual control of the closing and opening coils and source release with stationary ACTAS systems. A 10 m cable is used to connect the unit.

Customer-specific indicator panel 00006949

Indicator panel with customized labelling and LEDs to indicate the current operating states. The logic module assigning the operating states which are to be displayed is programmed by the manufacturer in accordance with customer requirements.

Customer-specific connection panel for ACTAS C systems 00006787

Connection panel consisting of a basic panel board and multi-contact plugs or 4 mm safety plugs. The assignment and positioning of the plugs are defined in consultation with the customer.

Barcode scanner 00006948



Barcode scanner for reading the switchgear information into the ACTAS testing software.

Test status indicator light 00006950



Three operating status are indicated by the indicator light.

Sensors

Single-phase digital linear travel sensor PMI 250 for ACTAS C 00006287



Transducer for single-pole measurement of linear movements on operating and drive rods, incl. mounting kit and connection cable.

Scope of delivery: 1 x linear transducer 250 mm, 1 x connection cable 10 m

Single-phase analog linear transducer set TLH 275 for ACTAS C 00006245



Transducer for single-pole measurement of linear movements on operating and drive rods, incl. mounting kit and connection cable.

Scope of delivery: 1 x linear transducer 275 mm, 1 x connection cable 10 m

Single-phase digital rotary transducer set BDH for ACTAS C 00007084



Transducer for single-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 1 x incremental rotary transducer (3600 pulses/revolution), 1 x articulated stand with base clamp and fine adjustment, 1 x transducer holding bracket, 3 x coupling, 1 x adapter set for common thread sizes, 1 x connection cable 10 m

Three-phase digital rotary transducer set BDH for ACTAS C 00007083



Transducer for three-pole measurement of rotary movements on operating and drive shafts, incl. mounting kit and connection cable.

Scope of delivery: 3 x incremental rotary transducer (3600 pulses/revolution), 3 x articulated stand with base clamp and fine adjustment, 3 x transducer holding bracket, 3 x coupling, 3 x adapter set for common thread sizes, 3 x connection cable 10 m

Pressure transducer set HT-PD 600 for ACTAS C 00006244



Transducer for measurement of pressures. Measuring range 0...600 bar, output signal 0...20 mA, pressure connection ISO228-G¼" BSP, supply voltage: 10...30 VDC

Scope of delivery: 1 x pressure transducer 0…600 bar, 1 x connection cable 10 m

Current clamp 10/100 A peak L10 for ACTAS P x60 00007539



Active current clamp with switchable measuring ranges 7/70 AAC or 10/100 ADC for the measurement of direct and alternating currents, for connection to the analog sensor input.

Scope of delivery: 1 x current clamp, 1 x connection cable 10 m.

Temperature Sensor 0-10 V for ACTAS C 00007536



The temperature sensor enables the recording of the ambient temperature during the switchgear test and is installed in an impact-resistant and moisture-proof plastic housing.

Scope of delivery: 1 x temperature sensor 0-10 V, 1 x connection cable 10m

Temperature Sensor 4-20 mA for ACTAS C 00007464



The temperature sensor enables the recording of the ambient temperature during the switchgear test and is installed in an impact-resistant and moisture-proof plastic housing.

Scope of delivery: 1 x temperature sensor 4-20 mA, 1 x connection cable 10m

Connection Cables and Connectors

Connection cable 10 m for digital transducers for ACTAS C 00006734



Cable for the connection of digital sensors to ACTAS C. The supply voltage of 5 V or 10 V is provided to the sensor via the cable. One end has a coded 8-pole push-pull plug with a green marking ring for connection to the test instrument, the other end is open for connection to the sensor.

Connection cable 10 m for analog transducers for ACTAS C 00006735



Cable for the connection of analog travel sensors to C. The cable also provides the transducer with the reference voltage of 10 VDC supplied by the test system. One end has a coded 8-pole push-pull plug with a blue marking ring for connection to the test instrument, the other end is open for connection to the sensor.

Connection cable 10 m for universal sensor input for ACTAS C 00006736

10 m cable for connecting pressure or temperature sensors to ACTAS C test systems via +/- 20 mA inputs. One end has a coded 8-pole push-pull plug with a black marking ring for connection to the test instrument, the other end is open for connection to the sensor.



Customer-specific sensor plug for ACTAS P and C 00006188

Plug with pin assignment in accordance with customer requirements for the sensor end of the connection cable for analog/digital travel sensors (#00006617) incl. assembly. The cable itself is not included in the scope of delivery.



Sensor adapter 5-pole to 8 -pole for ACTAS C 00007413

Adapter for connecting analog sensors of ACTAS P6/P14/P22 test instruments to the sensor inputs of the ACTAS C test systems.



Sensor adapter 10-pole to 8-pole for ACTAS C 00007415

Adapter for connecting digital sensors of ACTAS P3/P6/P14/P22 test systems to the sensor inputs of ACTAS C test systems.



Sensor adapter to 4 mm safety sockets for ACTAS Cx60 and Lx60 00007439

Adapter for connecting an analog sensor with 4 mm safety plugs to an ACTAS Cx60 or Lx60 test system. The adapter consists of a connection box with 4 mm safety sockets and a 30 cm long connection cable with 8-pole plug for the sensor input (blue socket) on the test system.



Connector set Harting HAN-Modular for ACTAS C160 00007331

Connector set for the preparation of connecting leads for connecting the device under test to the Harting sockets of the ACTAS C160 test instrument. *Scope of delivery: All C160 connectors including all modular HAN inserts and crimp contacts*



Connector set Harting HAN-Modular for ACTAS C320 00007320

Connector set for the preparation of connecting leads for connecting the device under test to the Harting sockets of the ACTAS C320 test instrument. *Scope of delivery: All C320 connectors including all modular HAN inserts and crimp contacts*



Connector set Harting HAN-Modular for ACTAS CF80 00007321

Connector set for the preparation of connecting leads for connecting the device under test to the Harting sockets of the ACTAS CF80 test instrument. *Scope of delivery: All CF80 connectors including all modular HAN inserts and crimp contacts*



Connector set Harting HAN-Modular for ACTAS CCF160 00007345

Connector set for the preparation of connecting leads for connecting the device under test to the Harting sockets of the ACTAS CCF test instrument. *Scope of delivery: All CCF160 connectors including all modular HAN inserts and crimp contacts*



Connector set Harting HAN-Modular for ACTAS CCF320 00007329

Connector set for the preparation of connecting leads for connecting the device under test to the Harting sockets of the ACTAS CCF test instrument. *Scope of delivery: All CCF320 connectors including all modular HAN inserts and crimp contacts*



SOFTWARE

Testing software

ACTAS Expert testing software — 00006635

PC software for the configuration and remote control of ACTAS P x60 switchgear test systems and for the analysis and management of test data. Based on the ACTAS P basic software, ACTAS Expert provides an extended range of functions.

Scope of delivery: workstation licences for the simultaneous use of the software on three PCs.

ACTAS 2.60 testing software — 00006295

PC software for the configuration and operation of portable and stationary ACTAS switchgear test systems and for the analysis and management of test data. The software can be extended by adding special functions provided by 5 additional software modules.

Scope of delivery: workstation licences for the simultaneous use of the software on three PCs.

Additional workstation licence — 00001224

Additional workstation licence for the ACTAS P, ACTAS Expert or ACTAS 2.60 software. A discount is given when more than one workstation licence is purchased at the same time: 2 pcs. = 15%, 3 pcs. = 20%, 4 pcs. = 25%, 5 pcs. = 30%, 6 pcs. = 35%, 7 pcs. = 40%, 8 pcs. or more = 45%.

Software modules for ACTAS 2.60 software

Data Interfaces — 00006130

The software module offers various interfaces for the import and export of measurement data (records), test results and test object data. Using this module, records can be exported to text files and then processed further in external programmes (e.g. MS Excel). In addition to data export, this software module also enables measurement data to be imported from various external systems for analysis in ACTAS. Connection to external database systems, such as SAP, is also possible via structured XML files.

Control & Automation — 00006131

The software module includes a wide variety of monitoring and control functions for automated switchgear testing. Various internal and external actuators and sources for the provision of configurable test conditions, such as coil system selection, coil or motor voltage or drive pressure, for example, can be controlled.

Extended Testing & Analysis — 00006132

The software module allows extended testing and analysis functions, such as the unsupervised execution and statistical evaluation of life tests. Advanced mathematical methods are also included, such as the calculation of virtual channels for power analyses and the assessment of recorded signal characteristics using reference characteristics in accordance with IEC 62271, for example.

Statistics — 00006133

The software module contains functions for logging and carrying out statistical analyses of switchgear faults identified by the test system or tester. All fault types and causes are recorded in a separate database and can be subjected to statistical analysis in accordance with various criteria. Accumulations of faults in particular areas can be detected, making it possible to draw conclusions as to the constructional or functional weak points of specific types of switchgear.

Extended Data Management — 00006134

The software module provides extended possibilities for handling test data and results, particularly when using ACTAS in a stationary, network-supported environment. Test data can be compressed and archived automatically.

SW module Compact switchgear testing — 00006786

Software module for configuring tests for the drives of disconnectors and earthing switches in compact switch bays with the ACTAS testing software and ACTAS CF test systems. The module makes it possible to carry out all kinds of tests, from test sequences which run autonomously to comprehensive, automatic tests on all the drives of a switch bay for type and routine testing.

WEB API — 00007537

The “WEB API” software module makes it possible to operate the test system via an HTTP based interface, which allows ACTAS to be integrated into automated workflows or customer-specific software solutions. The services offered are based on REST concepts and provide functions for managing and executing tests. Test data can be imported and exported via an XML interface, completed recordings are available for download in a standardized exchange format. Test results can be read out in a structured XML format. The module is particularly suitable for users who develop their own applications or wish to extend existing systems to include direct control of the test system. The WEB-API software module requires the Data Interfaces, Control & Automation, Extended Testing & Analysis, and Extended Data Management modules.