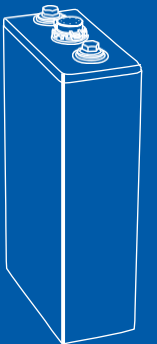


Accessories Ni-Cd batteries



Reliability inside

ALCAD

Installation and commissioning kits

Suitable for industrial standby Ni-Cd batteries

Protective equipment kit Personal protective equipment (PPE), always put safety first

P/N 08-00132-02

Apron for electrolyte protection (80x100cm)	1 pc
Storage box for protective kit	1 pc
Eye wash with pH neutral solution (200ml)	2 pcs
Protective gloves, pair	5 pcs
Protective goggles	1 pc
Protective shoe cover, pair	5 pcs



Electrolyte testing kit Suitable to test specific gravity

P/N 08-00171-01

Testing tube for electrolyte level	1 pc
Electrolyte hydrometer, range 1,08 - 1,30 g/l	1 pc
Plastic bottle 1 litre (electrolyte)	1 pc
Plastic zip-lock bag 1 litre	1 pc



Anti-corrosion oil kit Suitable when installing connectors

P/N 08-10035-01

Brush	1 pc
Anti-corrosion oil (0,5 litre), protective agent	1 pc
Plastic zip-lock bag (1 litre)	1 pc



Complete installation & commissioning kit

08-00174-1x

Protective equipment kit (08-00132-01)	1 kit
Electrolyte testing kit (08-00171-01)	1 kit
Anti-corrosion oil kit (08-10035-01)	1 kit
Digital multimeter (01-01925-01)	1 pc
Spanner ring (01-60653-0x)	1 pc



Electrolyte filling kit

Suitable for cells delivered empty and discharged (ED)

P/N 08-00175-01

Plastic funnel ϕ 140 (large)	1 pc
Plastic funnel ϕ 80 (small)	1 pc
Plastic jug with lid and plug (2 litres)	1 pc
Glass thermometer, temperature range -20 to +110°C	1 pc



Electrolyte mixing kit

Suitable for cells delivered empty and discharged (ED)

P/N 08-00176-01

Mixing tank (50 liters)	1 pc
Tank lid	1 pc
Stirring paddle	1 pc



Complete electrolyte preparation kit

P/N 08-00177-01

Electrolyte filling kit (08-00175-01)	1 kit
Electrolyte mixing kit (08-00176-01)	1 kit



Additional accessories

Suitable for industrial standby Ni-Cd cells

Carbonate testing kit

Suitable for electrolyte testing for carbonates

P/N 08-00009-02

Accessory box	1 pc
Plastic bottle (200ml)	1 pc
Plastic graduated cylinder (25ml)	1 pc
Plastic funnel ϕ 80	1 pc
Erlenmeyer flask (100ml) with rubber plug	2 pc
Filter V100	20 pcs
Plastic bags with 8g Soda (BaCl_2) powder	10 pcs
Hydrometer	1 pc



Digital multimeter

Fluke 113 Utility meter with VCHEK™
TL75 Test leads

P/N 01-60651-01

Voltage AC/DC 0.001 – 600V
Diode testing (2V)
Resistance 0,1 Ω – 60k Ω
Capacitance 1 – 9999 μ F

Category CAT III 600V and category IV 300V standards.

Size 167.1x85.1x46mm (6.58x3.35x1.81in)
Weight 404g (13oz)



Infrared thermometer

Fluke 62 Max mini Infrared thermometer

P/N 01-60652-01

Infrared thermometer for measuring temperatures from -30 to 500°C (-22 to 932°F).
Provides a 10:1 distance to spot ratio.

IP 54 (IEC 60529)

Size 175x85x75mm (6.88x3.34x2.95in)
Weight 255g (8.99oz)



Torque wrench set

High quality adjustable Knipex torque wrench with sockets
Insulated 1000V EN/IEC 60900

P/N 08-00178-01

Torque wrench 5-50 Nm (1/2")	1 pc
Socket SW10 (1/2")	1 pc
Socket SW13 (1/2")	1 pc
Socket SW16 (1/2")	1 pc



Spanner rings

High quality Knipex spanner ring
Insulated 1000V EN/IEC 60900

Spanner ring SW 10mm
Spanner ring SW 13mm
Spanner ring SW 16mm

01-60653-01
01-60653-02
01-60653-03



Cell numbering

Adhesive set for marking cells, black digits on white background.
Label size 14x14mm, letter size 7mm delivered on coil.

Numbering kit #1 – 50
Numbering kit #1 – 100
Numbering kit #1 – 200
Numbering kit #1 – 350
Numbering kit #1 – 500

01-01978-31
01-01978-32
01-01979-31
01-01979-32
01-01979-33



Topping-up equipment

P/N 08-00195-04

Complete kit to top-up cells with distilled/de-ionized water

Water cart, 37.5 liters 1 pc
Charger 120V/230V (exchangeable AC plug) 1 pc
Filling pistol (with spacer tube kit, fits all our cells) 1 pc



Cell replacement kit

P/N 31-11204-01

Suitable for replacing cells in a compact rack, where the rows are not in stepped layout.

Sliding plate 800x195x2mm
Filling plates 195x195x8mm
Sling 2m

1 pc
3 pcs
1 pc



Diphoterine®

Solution is an emergency rinsing solution for splashes of chemicals.
Rapid use in case of contact with electrolyte (KOH) quickly eliminates
secondary treatment of burn injuries.

SIEW 50ml, eye treatment
Clipped leather holster for SIEW 50ml
Mini DAP 200ml, for smaller body parts

01-52009-75
01-52009-76
01-52009-78



Terminal plate

P/N 31-10736-xx

Collecting bar to be installed on the top of the cells to change the number of outgoing cables and/or change cable cross section (up to 120mm²).

Terminal plates (+/-)

Available in various dimensions to fit our cells with Ni-plated copper.

Thickness: 4mm

2 pcs



Terminal plate cover

P/N 31-10129-xx

Terminal plate cover and bolts for assembling.
Cover is fulfilling IP2X protection

End lugs (35 – 120mm²)

Washers, DIN137b

Bolts, SIS 2343

Nuts, SIS 2343

Insulated post screws

Cover and cover gabels



Connection box

P/N 08-10010-02

Solution for connecting external cables of 95 to 400 mm².
Designed for 6 cables (max 120mm²) from cells and up 3 outgoing cables.

All cables between the cells and the connection box are supplied when specified.

Size: 380x280x120mm (LxWxD)

P/N for these cables are 31-10116-01 – 31-10128-61

Length between 110 – 10000mm are available.

End lugs for outgoing connection, between 95 – 400mm².



Junction box

31-10874-01

Solution for connecting external cables of 120mm² to 500mm².
Designed for 12 cables from cells and up 3 outgoing cables.

All cables between the cells and the Busbar are supplied when specified.

Length between 110 – 10000mm are available.

End lugs (M12) for outgoing connection are available between 100 – 500mm².



Electrolyte hydrometer

P/N 01-01980-01

Glass hydrometer for measuring electrolyte specific gravity during mixing.

Range 1,08 - 1,30 g/l



Central water filling system

For usage when one single connection is needed to top-up the complete cells in the battery with water.

Vent
Flame Arrestor
Hose (m)
Hose nipple
Bracket
L-joint
I-joint
Coupling (male/female).



Symmetry monitoring

Insulated kit for midpoint measurements within your battery system.

Symmetry monitoring kit M6
Symmetry monitoring kit M8
Symmetry monitoring kit M10

31-05422-01
31-05422-02
31-05422-03

All kits are delivered with protection cover, end lug, thin nut, & post screw SIS 2343.



Cabinet for accessories

Wall or floor-mounted painted steel cabinet for accessories.

P/N 01-02013-10

Size 900x500x450mm (HxWxD)
Weight 30kg



Lifting device

Gigant lifter is used for lifting heavy cells during installation and replacement.

P/N 01-02014-01

Capacity: 400kg
Lifting height: 1500mm
Table dimension: 650 x 576mm



Lifting device

Genie GL-8 portable and compact design which is used for lifting heavy cells during installation and replacement.

P/N 01-02014-10

Capacity: 181kg
Lifting height: 3006mm
Table dimension: 580 x 560mm



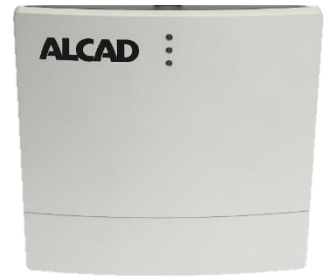
CleverWatch

Battery Monitoring System

BMS to measure current (A), voltage (V) and temperature, then State of Charge and State of Health is calculated, complete battery history is stored.

BMD LOW voltage 19-90V
 BMD MID voltage 55-265V
 BMD HIGH voltage 160-750V
 Current sensor
 Temperature sensor
 Electrolyte sensor
 Hydrogen sensor
 Satellite kit

08-10021-40
 08-10021-50
 08-10021-60
 08-10023-xx
 08-10027-01
 08-10028-01
 01-60550-01
 08-10032-01



Electrolyte monitoring

P/N 08-10039-01

Safe low electrolyte level detection with an external sensor, can connect up to 20 sensors to one monitoring tool.

Electrolyte monitoring tool
 Electrolyte sensor kit (1)
 Electrolyte sensor calibration tool

01-60892-01
 08-10028-01
 08-10031-01



Warning sign kit

P/N 01-02054-01

Complete warning sign label kit for battery room.
 Symbols and colors according to ISO 3864.

No smoking allowed
 Use protective goggles
 Warning - caution battery room
 Manual/information
 Warning - electrical shock
 Caution - corrosive substance

1 pc
 1 pc
 1 pc
 1 pc
 1 pc
 1 pc



Thermometer

P/N 01-02016-01

Wall mounted thermometer.

Temperature range -50 to +50°C



Solid Electrolyte

Electrolyte to be used when mixing on-site with distilled or de-ionized water for block batteries, LCE, MC & HC.

Solid electrolyte E22 1kg	11-85002-58
Solid electrolyte E22 5kg	11-85002-59
Solid electrolyte E22 20kg	11-85002-64
Solid electrolyte E13 1kg	11-85002-54
Solid electrolyte E13 5kg	11-85002-55
Solid electrolyte E13 20kg	11-85002-62



Liquid Electrolyte

Separate electrolyte to be used for block batteries, LCE, MC & HC.

Liquid electrolyte E22 5 litre	11-85001-06
Liquid electrolyte E22 10 litre	11-85001-07
Liquid electrolyte E22 25 litre	11-85001-08
Liquid electrolyte E13 5 litre	11-85001-26
Liquid electrolyte E13 10 litre	11-85001-27
Liquid electrolyte E13 25 litre	11-85001-28
Plastic bottle 25 litre with tap	08-00179-01
Tap for 25 litre electrolyte bottles	01-01727-02



Spare parts for your batteries

Accessory box

P/N 08-10020-04

Suitable for HC, MC and LCE cells with M6 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent small blue	5 pcs
Flip top vent tool small	1 pc
Bolt M6, ISO4017, A2-70, SW10	10 pcs
Washer M6 DIN137b, stainless spring steel	10 pcs
Insulated screw M6, A2-70, SW10	10 pcs



Accessory box

P/N 08-10020-05

Suitable for HC/HB, MC/MB and LCE/LBE cells with M8 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent small blue	5 pcs
Flip top vent large blue	5 pcs
Flip top vent tool small	1 pc
Flip top vent tool large	1 pc
Bolt M8, ISO4017, A2-70, SW13	10 pcs
Washer M8 DIN137b, stainless spring steel	10 pcs
Insulated screw M8, A2-70, SW13	10 pcs



Accessory box

P/N 08-10020-06

Suitable for HB, MB and LBE cells with M10 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
Flip top vent large blue	5 pcs
Flip top vent tool large	1 pc
Bolt M10, ISO4017, A2-70, SW16	10 pcs
Washer M10 DIN137b, stainless spring steel	10 pcs
Insulated screw M10, A2-70, SW16	10 pcs



Accessory box

P/N 08-10020-13

Suitable for Vantex with M6 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
XLP vent small	5 pcs
XLP vent tool small	1 pc
Bolt M6, ISO4017, A2-70, SW10	10 pcs
Washer M6 DIN137b, stainless spring steel	10 pcs
Insulated screw M6, A2-70, SW10	10 pcs



Accessory box

P/N 08-10020-14

Suitable for Vantex with M8 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
XLP vent small	5 pcs
XLP vent tool small	1 pc
XLP vent large	5 pcs
XLP vent tool large	1 pc
Bolt M8, ISO4017, A2-70, SW13	10 pcs
Washer M8 DIN137b, stainless spring steel	10 pcs
Insulated screw M8, A2-70, SW13	10 pcs



Accessory box

P/N 08-10020-15

Suitable for Vantex with M10 terminals with a range of all used components needed for replacement of lost parts.

Accessory box	1 pc
XLP vent large	5 pcs
XLP vent tool large	1 pc
Bolt M10, ISO4017, A2-70, SW16	10 pcs
Washer M10 DIN137b, stainless spring steel	10 pcs
Insulated screw M10, A2-70, SW16	10 pcs



Connector cover

To be used on block batteries (large)

Connector cover block battery (normal)
 Gable
 Width 30mm
 Length 374mm

31-00349-31
 31-05339-01



Connector cover block battery (crosswise)
 Gable
 Width 107mm
 Length 405mm

31-01347-47
 31-05340-01

Connector cover

To be used on block batteries (small)

P/N 31-00347-31

31-05338-01 gable

Connector cover block battery
 Width 15mm
 Length 374mm

**Connector Cover**

To be used on Vantex (large)

P/N 31-05378-31

31-05379-01 gable

Connector cover Vantex product
 Width 190mm
 Length 374mm

**Connector Cover**

To be used on Vantex (small)

P/N 31-05376-31

31-05377-01 gable

Connector cover Vantex product
 Width 128mm
 Length 374mm

