



ROAD SAFETY SOLUTIONS.

WE POINT THE WAY

VarioSign LED SYSTEM
2018/2019

A NEW DIMENSION OF SAFETY



Dear customers, partners and prospective customers,

The use of LED technology has revolutionized mobile traffic safety and control. Active lighting and dynamic traffic signs can be adapted to changing situations in real-time, to meet the increasing demands on road traffic, and enable much more operational efficiency. We have advanced and shaped the development of LED technology like no other company before. Our VarioSign LED system covers all areas of mobile traffic safety, from the individual traffic sign to the complete LED warning system. We are the worldwide leader in mobile LED technology. But don't take our word for it – have a look at our solutions and see for yourself.

KARL-FRIEDRICH FANDRICH

*Head of Human Resources and
Finance and Shareholder*

JAN VOGT

*Commercial manager and
authorized representative*

DIETER WADE

*Managing Director
and Shareholder*

KAI FREUND

*Technical manager and
authorized representative*

THE TECHNOLOGY OF THE FUTURE

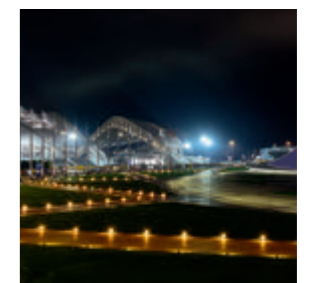
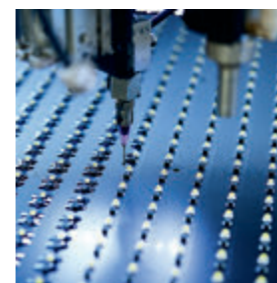
The VarioSign LED system offers plenty of advantages: optimum visibility, reduced dangers, and a wide range of displays with low energy consumption.

The maintenance of existing road networks and increasing traffic volume require powerful traffic signs that can adapt dynamically to different situations.

Our VarioSign LED system offers you an advanced solution for many applications.

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SOLUTIONS FOR EVERY APPLICATION

The VarioSign LED system is based on high-quality SMD boards measuring 360 x 360 mm and 420 x 420 mm. With these boards, we can configure LED traffic signs in all common sizes, even for country-specific specifications. The traffic signs are securely framed in a stable aluminium profile, which makes them ideal for mobile use. Each LED interchange symbol has a library stored on a medium and can be freely programmed.

Developed and perfected by pioneers

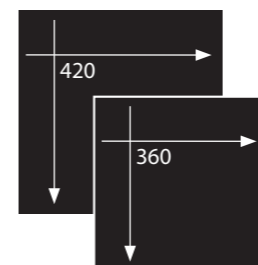
Our mobile LED traffic signs can be easily mounted on vehicles, guard rails or trusses. The WeNiPol II version is suitable for rooftop installation on vehicles.

We also offer complete mobile warning systems with different types of chassis.

VarioSign Classic and VarioSign RGB

Choose from two LED technologies: VarioSign Classic with up to four colours and VarioSign RGB to display 256 colours. VarioSign Classic has a special, anti-reflective glass to ensure optimal visibility, even in daylight. The VarioSign RGB version uses our patented lens technology, which enables 100% colour display – ideal for use at events.

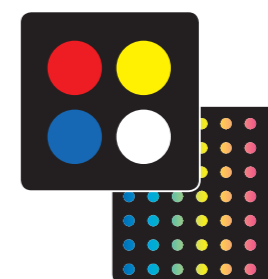
Basic modules



Aluminium profiles



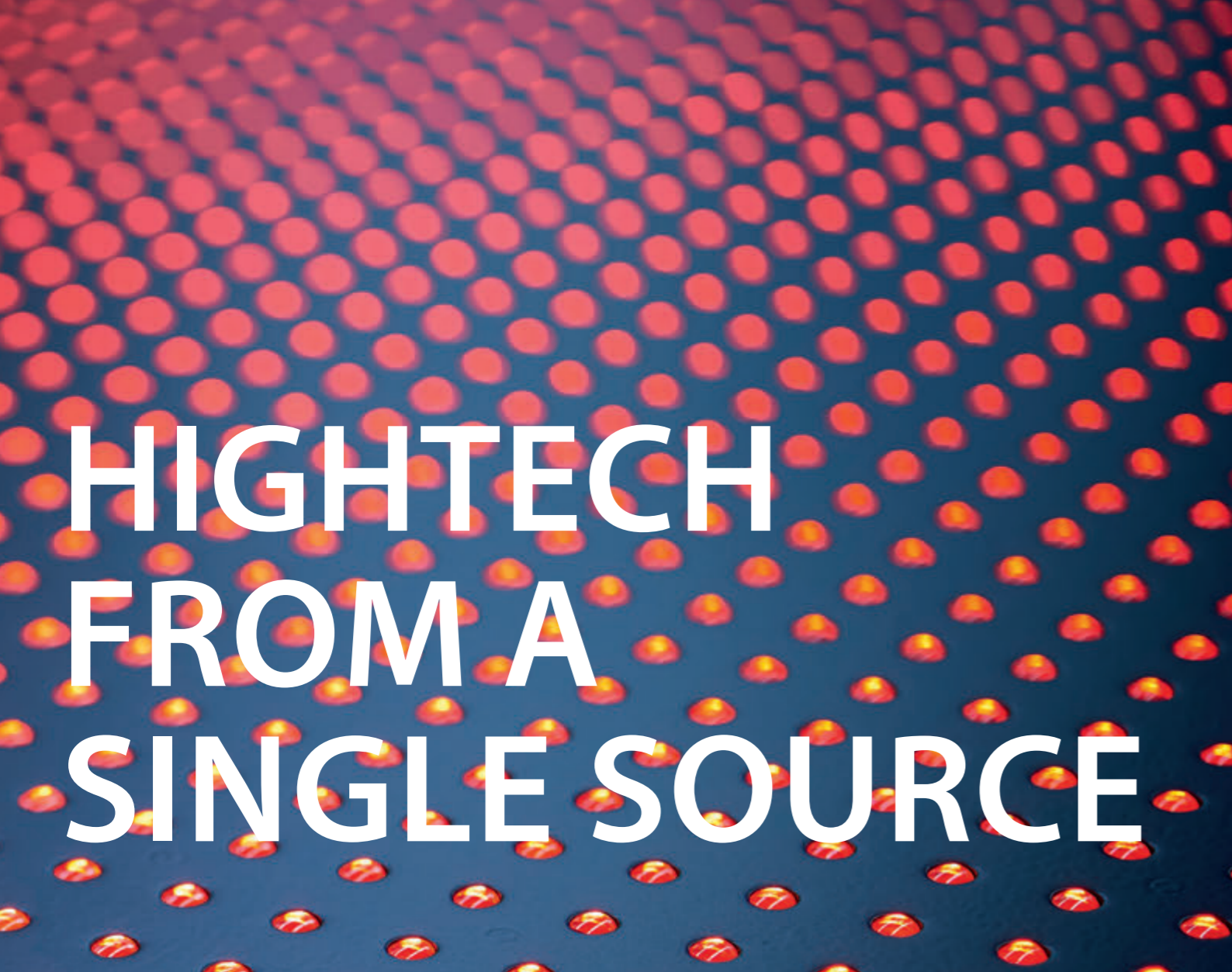
LED Classic or RGB



Programming



You need a custom LED solution?
Contact us: verkauf@nissen-germany.com



HIGHTECH FROM A SINGLE SOURCE



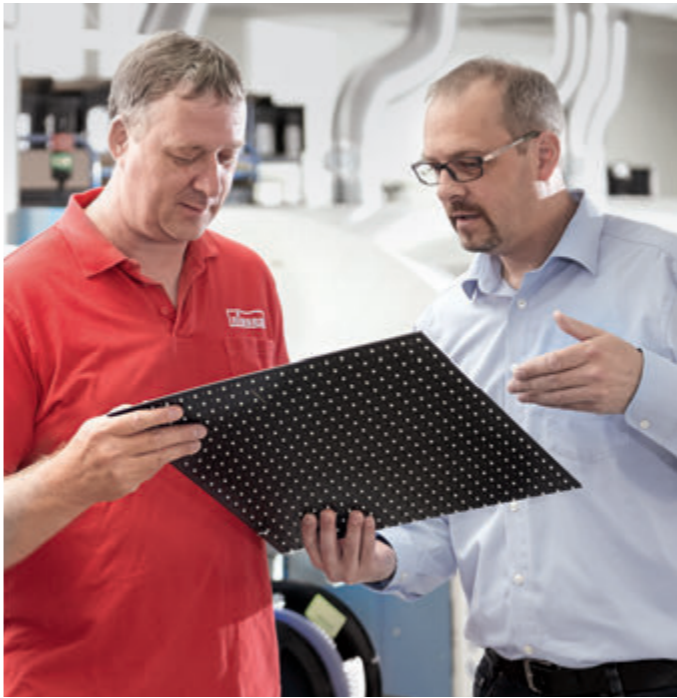
All components of our VarioSign LED system come from our own production facilities – from the technical layout, the assembly of the circuit boards to the reflow soldering process, and the application of a protective lacquer. Before the production goes any further, we test the circuit boards to make sure they function perfectly. Next, our expert teams assemble the traffic signs, install them on a chassis if required, and equip them with pre-programmed software.

VarioSign LED – Your benefits at a glance

- Better visibility through active light
- Reduction of dangers and accidents
- Variable potential for use
- Diverse range of display options
- Compatible with intelligent control systems
- Low energy consumption



Our quality management has been certified since 1995 according to **DIN EN ISO 9001** and our environmental management since 2014 according to **DIN EN ISO 14001**.



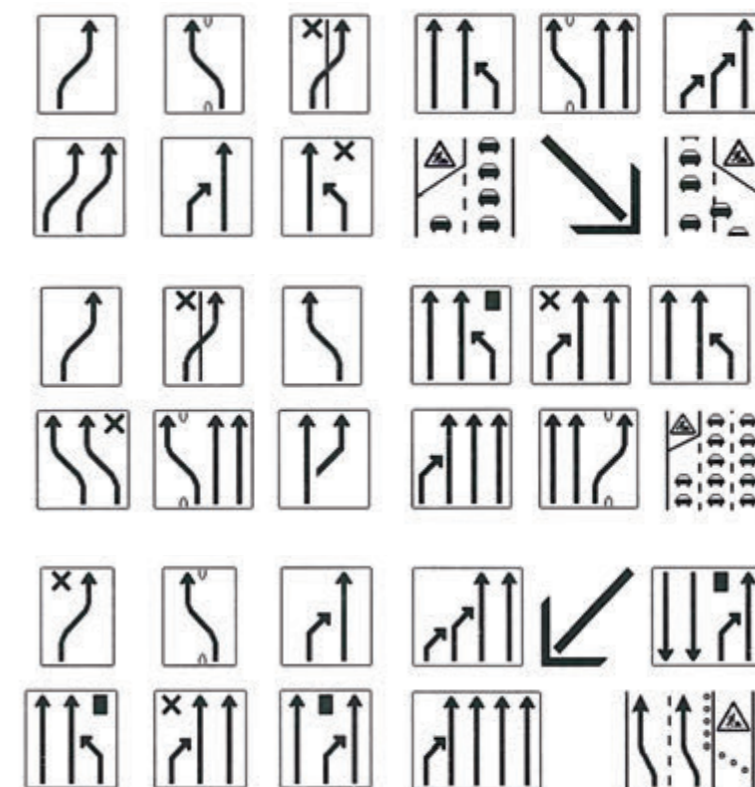
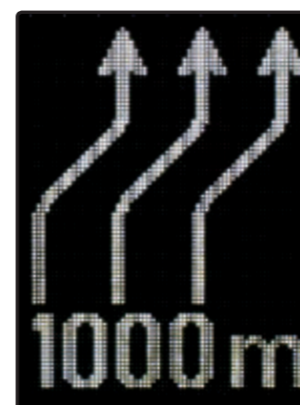
BRIGHT VARIETY

Whether animated or static, VarioSign LED traffic signs can display all traffic and direction signals, as well as almost every kind of symbol or text.

Our VarioSign LED traffic signs have comprehensive libraries available to help you find the characters that you need. These are stored on a medium and enable easy operation without any risk of confusion. You can also create your own texts and symbols.



... and many more characters



... and many more characters

SIGNS OF QUALITY

When safety comes from responsibility

When it comes to mobile traffic safety, planning and selecting the right materials are critical. When you choose Nissen, you are choosing products that meet the highest quality standards and the strictest guidelines. This is clear from the following:



BAST

Products with this seal have been tested by the Federal Highway Research Institute (BAST) on behalf of the Federal Ministry of Transport and Digital Infrastructure. This guarantees the highest standards of conformity.



TL (RSA) approved

The Technical Delivery Conditions (TL) contain all the requirements for design and passive safety, which are defined in Germany in accordance with the guidelines for securing work sites on roads (RSA).



EN 12352

This European Standard defines the requirements for the optical performance, structural design and operating characteristics of electrical lighting fixtures. Nearly all of our products in this category are developed and classified according to this standard.



EN 12966

All VarioSign LED traffic signs comply with the requirements set out in European Standard EN 12966. These include dimensions and structural design, colour and luminance, as well as the uniformity of the light intensity and the durability of the optical quality.



ADVANTAGES IN DETAIL

Optical systems

Two highly developed optical systems are used in the production of our VarioSign LED traffic signs. In the classic version with a four-colour display, there is a reflector-free front panel above the LEDs. In the case of RGB technology, on the other hand, the LEDs are behind special lenses that allow the display of characters and texts in 256 colours. Both systems have been approved and tested comprehensively.

Customizable programming

VarioSign LED traffic signs come with memory modules that contain libraries with all the official symbols. You can also display custom content, which you design with a software available from us.

LED surface

Our traffic signs are controlled by matrix circuits. This enables the simple, flexible and free programming of the matrix over all sizes, independent of the colour display.

Infinitely variable brightness adjustment

By law, lamps must have a sensor to automatically reduce their lighting intensity. This prevents LED traffic signs from blinding drivers in the dark. Nissen products have continuous brightness adjustment that reacts one-to-one to the external light conditions, even in bad weather. This technology surpasses the legal requirements and can lead to even greater energy savings.

Efficient energy management

Nissen LED traffic signs consume little energy, thanks to their optimal optical design. Intelligent electronics like automatic brightness adjustment reduce power consumption and increase safety even more. Important: For maximum battery life, using the correct charger is crucial. We would be happy to advise you.

Active monitoring

The flawless function of your LED warning device is essential for safety. This includes the correct display and full

visibility of the given traffic signal, in particular. To guarantee this, the operating information is transmitted to the remote control continuously. This way the staff working in front of the system can react early to any problems.

Powerful batteries

Our systems operate on gel batteries (closed lead acid batteries, in which the acid is bound with silicic acid). They are easy to transport and will not leak, even in a slanted position. They retain their high capacity, are practically maintenance-free and even tolerate deep discharges better. A special charger prevents overcharging. Thanks to their longer life, gel batteries are more environmentally friendly than the traditional lead-acid batteries.

Remote controls with range

Bluetooth is an industrial standard for wireless data transmission between devices over short and medium distances. Compared to other standards, Bluetooth is very stable, insensitive to reflections and allows the parallel operation of several systems. This makes it possible to operate several warning trailers with one remote control. Another advantage: Bluetooth modules from Nissen have an extremely long range.

Variable drawbar

Thanks to the height-adjustable drawbars, you can transport your trailers safely with any vehicle. Whether it is a combination truck, a small truck or a transport truck, or if the towing equipment is high or low, the connection is always parallel to the drawbar. This ensures the optimal functioning of the brakes and steering. DIN towing eye and spherical head coupling can be changed in a twinkling of an eye.

Tested quality

Nissen produces its products in accordance with CE quality standards and moreover with the EU Machinery Guidelines. This ensures a uniformly high level of accident prevention across Europe. We are committed to advance these and other guidelines, making an important contribution to improving road safety.

LED Variable Message Sign

VarioSign



CHASSIS

- A perfect solution for mobile applications
- Powder-coated aluminium profile housing (AlMg3)
- Universal mounting by C-profiles on the rear side
- Impact-resistant anti-reflective polycarbonate front pane (classic)
- Patented lens technology (RGB)
- Separate control housing on the rear side to provide easy maintenance access

LED DISPLAY

- Full matrix for displaying freely programmable static or dynamic texts and symbols to animations
- Good recognizability of the signs from almost every perspective and even from long distances
- Certified in compliance with EN 12966:2005+A1:2009 CE
- Complies with data sheet MTI 2015
- Grid dimension 20 mm
- Optionally 1-256 colours
- Premium quality light-emitting diodes with a long service life
- Continuous brightness adjustment, automatic or manual
- Available in different display sizes

CONTROL & ELECTRICAL SYSTEM


- Manual cable control for operating all functions via one-touch keys
- 12/24 V operating voltage
- Optimized power supply for long operating times

Possible LED variable message signs

Type	LED surface (mm)	housing size (mm)
2x2-420	840 x 840	970 x 970
3x3-360	1080 x 1080	1210 x 1210
3x4-420	1260 x 1680	1390 x 1810
4x4-360	1440 x 1440	1570 x 1570
4x4-420	1680 x 1680	1810 x 1810
5x3-420	2100 x 1260	2230 x 1390
5x4-420	2100 x 1680	2230 x 1680
7x3-420	2940 x 1260	3070 x 1390

Typical applications

- Mobile traffic congestion warning systems
- Risk signalling
- Changing traffic routing
- Traffic management
- Signposting for events
- Height control
- Warning systems for the prevention of accidents involving deer
- Information display

 More information
NIS-01648
To be entered on nissen-germany.com



ACCESSORIES AND OPTIONS

- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys
- Control and monitoring via NiCo web application
- Open interface
- Caution lights
- 230 V voltage supply

Technical data

Operating voltage	12/24 Volt
Light source	LED
LED/m²	2500
Material housing	Aluminium, seawater-resistant

VarioSign LED Variable Message Sign

	Ref. No.
VarioSign SM Type 2x2-420, 12/24 V, red/white fully assembled with external control box, weight ca. 30 kg	229 291-22-103
VarioSign SM Type 3x3-360, 12/24 V, red/white fully assembled with external control box, weight ca. 40 kg	229 290-33-103
VarioSign SM Type 3x4-420, 12/24 V, red/white fully assembled with external control box, weight ca. 80 kg	229 291-34-103



LED Variable Message Sign

WeNiPol II



CHASSIS

- A perfect solution for emergency vehicles
- Stainless steel base frame
- Powder-coated aluminium housing
- Universal mounting on commercially available roof racks
- Impact-resistant anti-reflective polycarbonate front pane
- Maximum speed: in lifted position up to 80 km/h, in lowered position up to 160 km/h
- Electromotive lifting and lowering

LED DISPLAY

- Full matrix for displaying freely programmable static and dynamic texts and symbols to animations
- Good recognizability of the signs from almost every perspective and even from long distances
- Quick selection of the symbols
- Ready-to-use system
- With regard to photometric requirements, certified in compliance with EN 12966:2005+A1:2009
- Grid dimension 20 mm
- Up to four colours can be used
- Premium quality light-emitting diodes with a long service life
- Continuous brightness adjustment, automatic or manual

CONTROL & ELECTRICAL SYSTEM

- Manual cable control for operating all functions via one-touch keys
- 12/24 V operating voltage

ACCESSORIES AND OPTIONS

- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys
- Open interface
- Caution lights
- Integrated yellow or blue LED advance warning beacons
- GPS speed sensor

Typical applications

- Police
- Fire brigade
- Technical assistance organisation
- Road and freeway administration
- Breakdown service



Technical data

LED Variable Message Sign WeNiPol II	Ref. No.
WeNiPol II ProLine St 12/24 V, yellow fully assembled	129 503-001-01
WeNiPol II ProLine St 12/24 V, red/white fully assembled	129 503-002-01
WeNiPol II ProLine St+ 12/24 V, red/white	129 503-002-02
WeNiPol II ProLine St 12/24 V, red/white/yellow fully assembled	129 503-003-01
WeNiPol II ProLine FE+ 12/24 V, red/white/yellow fully assembled	129 503-003-03
WeNiPol II ProLine FE+ 12/24 V, red/white/yellow/blue fully assembled	129 503-004-03



More information
NIS-00629
To be entered on nissen-germany.com



Roof Frame for Service Vehicles

Pamir II



DESIGN

- Housing made of glass-fibre reinforced plastic (GRP)
- Folding frame and round frame of aluminium or hot-galvanized steel
- Profile housing of the text matrix of aluminium (AlMg3)
- Profile bars for mounting on any vehicles

LUMINOUS ARROW / TEXT MATRIX

- Light arrow system either with 15 or 23 LED luminous arrow lamps certified in compliance with EN 12352
- Motor-driven lifting and lowering of the upper board, including a mechanism for mechanical emergency adjustment
- Manual cable control or combined manual radio-cable control for operating all functions via touchscreen and one-touch keys
- Freely programmable VarioSign text matrix with continuous brightness adjustment, automatic or manual to display static or dynamic texts and symbols

Housing size:	1750 x 370 mm
LED surface:	1620 x 240 mm
Number of characters:	9
Grid dimension:	15 mm
Pixels:	108 x 16
Character height:	200 m

ELECTRICAL SYSTEM

- 12/24 V operating voltage

ACCESSORIES AND OPTIONS

- Pamir APP for intuitive control via tablet
- Double 340 mm caution lights
- Work lights
- Beacons
- Battery guard for protection of electronics



Technical data

Total length	LP 15: 2150 mm
Total length	LP 23: 2600 mm
Total width	LP 15/23: 1760 mm
Height lowered	LP 15/23: 370 mm
Height lifted	LP 15: 1521 mm
Height lifted	LP 23: 1751 mm
Weight	100 kg

Roof Frame for Service Vehicles Pamir II	Ref. No.
Roof Frame for Service Vehicles, 9 segments with light arrow LP 23-H/S with cable remote control Standard-Remote Dimensions: 2450 x 1710 x 390 mm	129 493-001
Roof Frame for Service Vehicles, 9 segments with light arrow LP 23-H/S with radio/cable remote control Pro-Remote Dimensions: 2450 x 1710 x 390 mm	129 493-101

Further versions on request

 More information
NIS-00743
To be entered on nissan-germany.com



VarioSign LED TRAILER

Comparison	Standard	Advanced	Premium	Pharos II
Perm. total weight	750–1000 kg	1000 kg	1300–1500 kg	2200–2500 kg
Load capacity	140–390 kg	90–340 kg	550–750 kg	100–300 kg
Total length	4700–5300 mm	4700–5300 mm	3900–4630 mm	5800–6200 mm
Overall width	1810 mm	1810 mm	2200 mm	2200 mm
Top LED sign	2 x 2/420	3 x 3/360	3 x 3/420	7 x 3/360
Middle LED sign	-	-	-	3 x 3/360
Lower LED sign	3 x 4/420	3 x 4/420	4 x 4/420	3 x 4/420
LED colours	red/white/yellow/ black-RGB	red/white/yellow/ black-RGB	red/white/yellow/ black-RGB	red/white/yellow/ black-RGB
Pitch	20 mm	20 mm	20 mm	20 mm

Thanks to powerful LED modules, a wide range of display options and compatibility with intelligent control systems, our mobile LED warning lights are suitable for a wide range of applications, from blocking off hazardous locations to traffic management at events.

LED VARIABLE MESSAGE SIGNS

From our own development and production facilities

STRONG LUMINOSITY

2,500 LED / m² – tested and approved

DYNAMIC DISPLAY

Software for custom programming

INFINITELY VARIABLE BRIGHTNESS ADJUSTMENT

Automatic or manual

POWERFUL ELECTRONICS

For extremely long operating times

ROBUST MODULAR DESIGN

With individually interchangeable elements

INDIVIDUAL DESIGN

Chassis and LED traffic signs can be configured

VarioSign LED Trailer

STANDARD



CHASSIS AND BODY

- Chassis and body of hot-galvanized steel
- Hot-galvanized, height-adjustable drawbar with holding brake
- DIN towing eye and with a changeable spherical head coupling
- Height-adjustable support wheel
- 4 fully adjustable support legs
- Battery box of acid-proof plastic (1660 x 450 x 320 mm)
- Plastic fenders
- Warning marking in accordance with DIN 30710 at the rear

ADVANCE WARNING BOARD

- 2 LED advance warning beacons inspected in compliance with TL warning beacons WL 7
- 2 LED variable traffic signs with an automatic and manual brightness adjustment for the static and dynamic representation of texts, symbols and road signs

Upper LED variable traffic sign

Housing size:	970 x 970 mm
LED display surface:	840 x 840 mm
Pixels:	42 x 42
Grid dimension:	20 mm
LED/m²:	2500


Lower variable traffic sign

Housing size:	1390 x 1810 mm
LED display surface:	1260 x 1680 mm
Pixels:	63 x 84
Grid dimension:	20 mm
LED/m²:	2500

- Separately programmable text line
- Libraries on a separate memory module for easily changing the image contents
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Electromotive locking in lowered state
- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys

ELECTRICAL SYSTEM

- Rechargeable battery, 24 V, up to 50 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V or 24 V
- Feed socket 230 V
- Battery guard for protection of electronics

 More information
NIS-01787
To be entered on nissen-germany.com



Side view



Lowered

ACCESSORIES AND OPTIONS

- Loading area (1600 x 530 x 300 mm)
- Central crank supports
- Control and monitoring system
- Operating hours counter
- Interface package
- Handle for one-handed opening/closing of battery box

Technical data

Total length	4700 - 5304 mm
Total width	1810 mm
Track width	1600 mm
Height lowered	1475 mm
Height lifted	3596 mm
Total weight	750 - 1000 kg
Empty weight depending on model	610 kg

VarioSign LED Trailer STANDARD

Ref. No.

Advance Warning Trailer VarioSign
with LED variable message signs
total weight 750 kg, with parking brake

129 265-011



VarioSign LED Trailer

ADVANCED



CHASSIS AND BODY

- Chassis and body of hot-galvanized steel
- Hot-galvanized, height-adjustable drawbar with holding brake
- DIN towing eye and with a changeable spherical head coupling
- Height-adjustable support wheel
- 4 fully adjustable support legs
- Battery box of acid-proof plastic (1660 x 450 x 320 mm)
- Plastic fenders
- Warning marking in accordance with DIN 30710 at the rear

ADVANCE WARNING BOARD

- 2 LED advance warning beacons inspected in compliance with TL warning beacons WL 7
- 2 LED variable traffic signs with an automatic and manual brightness adjustment for the static and dynamic representation of texts, symbols and road signs

Upper LED variable traffic sign

Housing size: 1210 x 1210 mm
LED display surface: 1080 x 1080 mm
Pixels: 54 x 54
Grid dimension: 20 mm
LED/m²: 2500


Lower variable traffic sign

Housing size: 1390 x 1810 mm
LED display surface: 1260 x 1680 mm
Pixels: 63 x 84
Grid dimension: 20 mm
LED/m²: 2500

- Separately programmable text line
- Libraries on a separate memory module for easily changing the image contents
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Electromotive locking in lowered state
- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys

ELECTRICAL SYSTEM

- Rechargeable battery, 24 V, up to 50 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V or 24 V
- Feed socket 230 V
- Battery guard for protection of electronics

 More information
NIS-01789
To be entered on nissen-germany.com



Lowered

ACCESSORIES AND OPTIONS

- Loading area (1600 x 530 x 300 mm)
- Central crank supports
- Control and monitoring system
- Operating hours counter
- Interface package
- Handle for one-handed opening/closing of battery box

Technical data

Total length	4700 - 5304 mm
Total width	1810 mm
Track width	1600 mm
Height lowered	1475 mm
Height lifted	3596 mm
Total weight	750 - 1000 kg
Empty weight depending on model	660 kg
Max. load capacity	max. 90 - 340 kg

VarioSign LED Trailer ADVANCED

Advance Warning Trailer VarioSign
with LED variable message signs
total weight 750 kg, with parking brake

Ref. No.

129 265-011



VarioSign LED Trailer

PREMIUM



CHASSIS AND BODY

- Chassis and body of hot-galvanized steel
- Hot-galvanized, height-adjustable drawbar with holding brake
- DIN towing eye and with a changeable spherical head coupling
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable support wheel
- 4 fully adjustable support legs
- Battery box of acid-proof plastic (1660 x 450 x 320 mm)
- Plastic fenders
- Warning marking in accordance with DIN 30710 at the rear

ADVANCE WARNING BOARD

- 2 LED advance warning beacons inspected in compliance with TL warning beacons WL 7
- 2 LED variable traffic signs with an automatic and manual brightness adjustment for the static and dynamic representation of texts, symbols and road signs

Upper LED variable traffic sign

Housing size:	1390 x 1390 mm
LED display surface:	1260 x 1260 mm
Pixels:	63 x 63
Grid dimension:	20 mm
LED/m²:	2500


Lower variable traffic sign

Housing size:	1810 x 1810 mm
LED display surface:	1680 x 1680 mm
Pixels:	84 x 84
Grid dimension:	20 mm
LED/m²:	2500

- Separately programmable text line
- Libraries on a separate memory module for easily changing the image contents
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Electromotive locking in lowered state
- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys

ELECTRICAL SYSTEM

- Rechargeable battery, 24 V, up to 50 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V or 24 V
- Feed socket 230 V
- Battery guard for protection of electronics

 More information
NIS-01788
To be entered on nissen-germany.com



ACCESSORIES AND OPTIONS

- Loading area (1600 x 530 x 300 mm)
- Central crank supports
- Control and monitoring system
- Operating hours counter
- Interface package
- Handle for one-handed opening/closing of battery box

Technical data

Total length	4700 - 5304 mm
Total width	1810 mm
Track width	1600 mm
Loading area (LxW)	1380 x 1630 mm
Height lowered	1475 mm
Height lifted	3596 mm
Total weight	1300 - 1500 kg
Empty weight depending on model	750 kg
Max. load capacity	90 - 340 kg

VarioSign LED Trailer PREMIUM

Advance Warning Trailer VarioSign
with LED variable message signs
total weight 750 kg, with parking brake

Ref. No.

129 265-011



VarioSign LED Warning Trailer

PHAROS 2.0



CHASSIS AND BODY

- Chassis and body of hot-galvanized steel
- Hot-galvanized, height-adjustable drawbar with holding brake
- DIN towing eye and spherical-head coupling changeable
- Height-adjustable support wheel
- 4 fully adjustable and individually controllable hydraulic supports
- 2 battery boxes of acid-proof plastic (1660 x 450 x 320 mm)
- Warning marking in accordance with DIN 30710 at the rear

ADVANCE WARNING BOARD

- 4 LED advance warning beacons inspected in compliance with TL warning beacons WL 7
- 3 LED variable traffic signs with an automatic and manual brightness adjustment for the static and dynamic representation of texts, symbols and road signs

Upper LED variable traffic sign

Housing size: 2650 x 1210 mm
LED display surface: 2520 x 1080 mm
Pixels: 126 x 54
Grid dimension: 20 mm
LED/m²: 2500

Medium-sized variable traffic-sign (optional)

Housing size: 1210 x 1210 mm
LED display surface: 1080 x 1080 mm
Pixels: 54 x 54
Grid dimension: 20 mm
LED/m²: 2500


Lower variable traffic sign

Housing size: 1390 x 1810 mm
LED display surface: 1260 x 1680 mm
Pixels: 63 x 84
Grid dimension: 20 mm
LED/m²: 2500

- Upper LED variable traffic sign swings above the road
- Libraries on a separate memory module for easily changing the image contents
- Hydraulic lifting and lowering of the upper board, including a mechanism for mechanical emergency adjustment
- Combined manual radio-cable control for operating all functions via touchscreen and one-touch keys

ELECTRICAL SYSTEM

- Rechargeable battery, 24 V, up to 50 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V or 24 V
- Feed socket 230 V
- Battery guard for protection of electronics

 More information
NIS-01741
To be entered on nissen-germany.com



State for transport



Side view

ACCESSORIES AND OPTIONS

- Hydraulic post available without swivel arm
- Control and monitoring system
- Operating hours counter
- Interface package

Technical data

Total length	6000 - 6300 mm
Total width	2200 mm
Track width	2000 mm
Height lowered	3800 mm
Height lifted	6600 mm
Clearance height	4800 mm
	2000 kg
Empty weight depending on model	200 - 500 kg
Max. load capacity	

VarioSign LED Warning Trailer PHAROS 2.0

Ref. No.

Advance LED Overhead Warning Trailer "Pharos"
(without variable message signs)

129 265-052



EXTRA FEATURES FOR YOUR BENEFIT

Ready for operation, right from the factory: You can put our LED warning systems to use in traffic right away. We also offer accessory options so that you can customize your trailers to your needs for one-of-a-kind operating convenience.

Electrical equipment

Battery monitor

Ensure the long-term performance of your LED pendant. The optional battery monitor sends you a warning in advance, before the capacity of your battery is too low for operation. The device also monitors the charging process and protects against overloading. This way, you can effectively prevent unforeseen breakdowns and damage to the electrical system.

Charge booster

The on-board battery of your LED trailer does not get a sufficient charge from the generator of the towing vehicle. After the engine is started, the charging voltage and the charging current are regulated to protect the starter battery. Our charging boosters ensure that the battery is reliably charged, even over short distances. This increases the service life and improves the reliability of your LED trailer.

Operation

Operating hours meter

The detailed documentation of your warning trailer use let you detect wear and tear in advance and replace parts like bulbs, batteries or mechanical components before they fail. The operating hours meter also provides you with critical information to make your billing easier.

Interface package XML

This module enables secure data exchange between several devices. It makes it possible to remotely control LED trailers equipped with the XML interface package – including all functions. In addition, your LED trailer can also send data to control systems.

NiBus modem

This digital data interface lets you control and monitor our warning trailer up to safety standards, regardless of your location. In addition, the NiBus modem can also be used to integrate systems into common construction site management systems.

Safety

GPS speed sensor

Our warning trailers are designed for specific maximum speeds. These vary, depending on the system. The optional GPS speed sensor ensures that the warning trailer automatically retracts when the maximum speed is exceeded. The system also prevents the warning trailer from opening during travel.

Monitoring device

Mobile VarioSign LED traffic signs are equipped with an acoustic and visual warning signal. This adds additional security in case of a system malfunction.

INDIVIDUALITY AT A GLANCE

Adapt your LED trailer with accessories that meet your needs.				
	Standard	Advanced	Premium	Pharos II
Equipment				
• Spare wheel with holder	•	•	•	•
• Loading area with side walls	•	•	Standard	-
• Parking light socket	•	•	•	•
• Axis mileage indicator	•	•	•	•
• Anti-theft wheel bolts	•	•	•	•
• Cockpit bracket remote control	•	•	•	•
• Pro Remote II holder and tray	•	•	•	•
• Lighting for loading area	-	-	•	-
• Cable drum	•	•	•	•
• Battery light	•	•	•	•

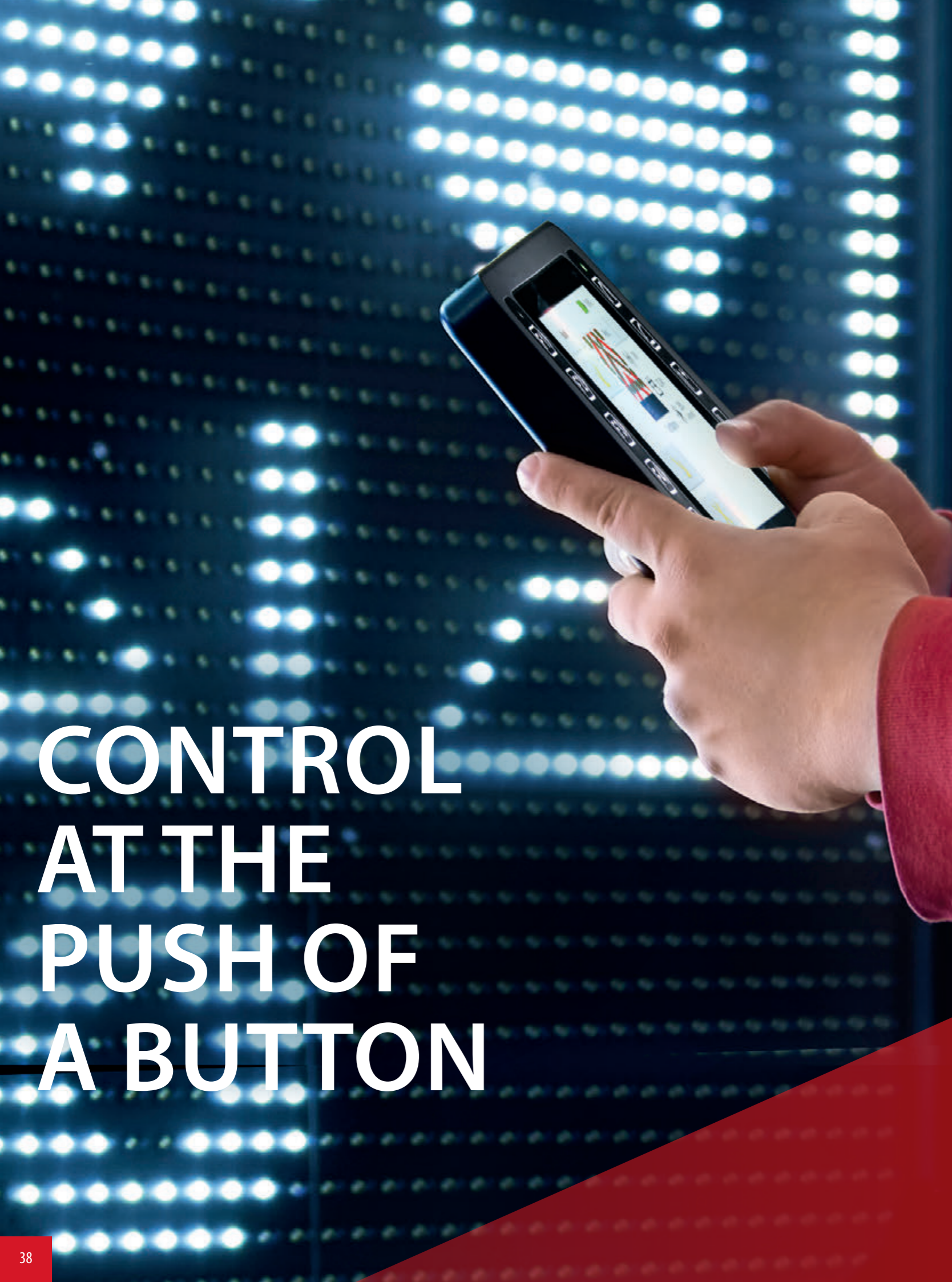
	Standard	Advanced	Premium	Pharos II
Operation				
• Electric lock hinged	•	•	-	-
• Enclosure with board for 4 memory sticks	•	•	•	•
• Preparation NiBus modem	•	•	•	•
• XML interface package	•	•	•	-
• LED matrix programming device	•	•	•	•
• Hydraulic lifting/lowering device	•	•	•	Standard
• Acoustic signal transmitter manual control	•	•	•	•
• NiBus modem	•	•	•	•
Electrical systems				
• Power supply 230 V	•	•	•	•
• Charging plug connection 12/24 V	•	•	•	•
• Operating hours meter	•	•	•	•
• Preparation for power generators	•	•	•	•
Chassis				
• Central crank support	•	•	•	-
• Holder spherical head coupling / DIN towing eye	•	•	•	•
• Drawbar brace	•	•	-	-
• Upgrade 100 km/h	•	•	-	-
• Height adapter for support wheel	•	•	•	-
• Charge booster	•	•	•	•
Safety				
• Additional warning mark at the bottom	•	•	-	-
• Additional warning mark on the side	•	•	-	-
• Preparation CB radio warning transmitter	•	•	•	•
• GPS speed sensor	•	•	•	•
• Monitoring equipment	•	•	•	•
• Fault signal via alarm siren	•	•	•	•
• Front and side warning markings	•	•	•	-
• CB warning system	•	•	•	•
Transportation				
• Traffic cone holder	•	•	•	-
• Airline rail on the side walls	-	-	•	-
• Net for securing loads	-	-	•	-

PROVEN, MODERN CONTROLS

Operation via app

Our uniform operating concept for warning and barrier systems has been well proven worldwide. The app has been available since 2017 and has exclusively been programmed for Nissen. It is an ideal addition to this operating concept and represents a revolution in road traffic safety systems. For the first time, all the functions of our systems can be controlled intuitively via an application for tablets: lifting and lowering of warning trailers, light arrows and warning lamps; and, of course, the operation of symbols and texts on the LED matrix. The operation of road traffic safety systems has never been this comfortable or safe.





CONTROL AT THE PUSH OF A BUTTON

Everything under control

You can operate the VarioSign LED traffic sign with one of our three remote controls. The rugged and weatherproof Touch Remote Color, for example, works either via a cable or cordless with Bluetooth and has a large colour touchscreen and illuminated symbol buttons. You can select libraries or texts quickly and easily. The Touch Remote Color is compatible with all Nissen systems and can access up to eight devices.

This guarantees you intuitive and safe operation at any time. You can set up the work station in no time.

Benefits at a glance

- Intuitive and safe operation
- Optional cable or wireless control
- Backlit keyboard
- Uniform operating concept for all Nissen systems
- Robust and impact-resistant housing



Touch Remote Color

- Large 5,7" full color touch screen display
- Automatic day/night adaptation
- Combined cable/radio remote control
- Operation of the most important features via keypad
- Favorite combinations freely programmable via touch screen
- Functions keys freely programmable
- Useable for all Nissen systems



Dimensions (LxWxH)
211 x 141 x 39 mm



Weight
680 g

Touch Remote Color

Ref. No.

Touch Remote Color
radio/cable remote control (bluetooth) with touch screen
and illuminated keypad (without cable)

329 236-1



Touch Remote Color



More information
NIS-01742
To be entered on nissen-germany.com

Standard- and Pro-Remote

- Universal remote control for secure and easy operating also of complex devices via cable connection
- Large operating keys
- Illuminated keypad
- Easily readable large display with additional touch screen function



Dimensions (LxWxH)
215 x 130 x 45 mm



Weight
Standard-Remote: 480 g
Pro-Remote: 700 g

Standard- and Pro-Remote

Ref. No.

Pro-Remote II radio/cable remote control - Bluetooth
touchscreen (without cable)
Standard-Remote cable remote control
touchscreen (without cable)

329 231-12
329 232-2



Standard-Remote



Pro-Remote

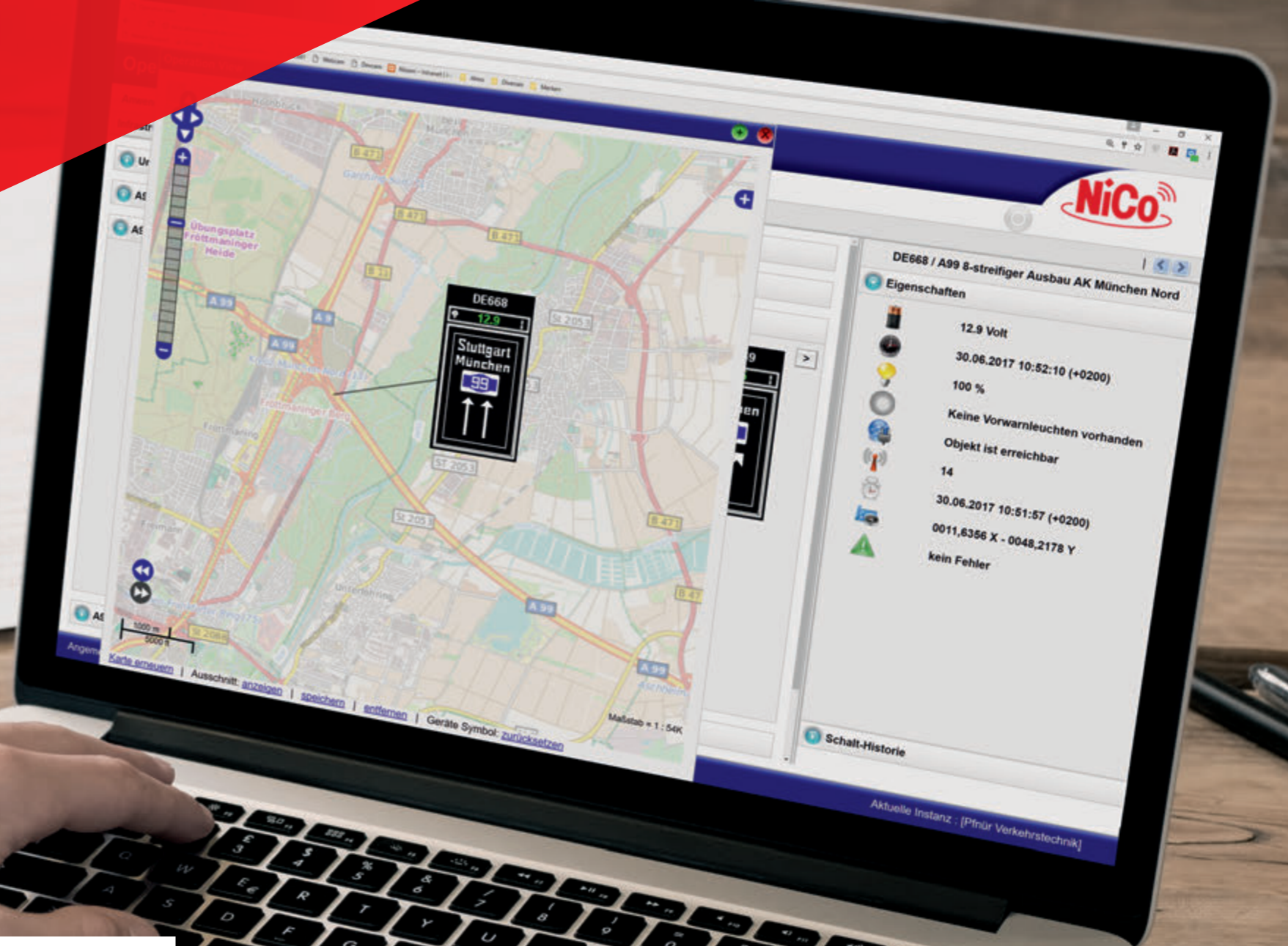


More information
NIS-01785
To be entered on nissen-germany.com

UNLIMITED FLEXIBILITY

The software-based operation and control lets you access the full potential of the VarioSign LED system. Integration in the GSM network and the web application NiCo makes numerous functions available, from the location-dependent display change to functional control.

This system can be scaled as required. This allows you to control an unlimited number of traffic signs easily, safely and with very little staff costs. Additional software modules extend the functions even further. Record the traffic situation in the work site in order to develop suitable management strategies and flexible information, and provide road users with developments and warnings – automatically, in real-time.



NiCo

- Monitoring and controlling of traffic safety devices
- Displaying of the current switching status and additional information
- Browser-based application without installation
- Server-based data transfer /
GPRS internet connection
- System scalable according to need
- Error message by SMS or mail
- GPS-supported map display
- User documentation including analysis
- Retrofitting capability



NiCo	Ref. No.
NiCo, web licence with control and monitoring unit, per user	295 505-1
NiCo, web licence with text editor	295 505-2
Accessories and Spare parts	Ref. No.
LED designer, licence/year	295 506-1
number of signs to be controlled: 1 to 9	
LED designer, licence/year	295 506-2
number of signs to be controlled: 10 to 29	
LED designer, licence/year	295 506-3
number of signs to be controlled: >= 30	
LED designer, signs 1 to 9, flatrate for 4 years	295 506-11
LED designer, signs 10 to 29, flatrate for 4 years	295 506-12
LED designer, signs >= 30, flatrate for 4 years	295 506-13



Traffic control centre



More information
NIS-01242
To be entered on nissen-germany.com



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You can find the detailed contact information for our staff in the individual sales regions at: nissan-germany.com/vertrieb

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Our know-how is just a click away

Find out more about our complete product range, from safety beacons and lamps to complex systems for traffic management. Our website also offers you detailed information on many products, including detailed views, instructions, application videos, and regulations to find this information, enter the respective **product code in the search field** to get to the desired product: **nissen-germany.com**



Further information:
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nissen-germany.com

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This information is subject to technical changes and errors. Images may differ from the original product or may include accessories. All details are approximate. We supply all products without batteries or rechargeable batteries.

Important:

All products may only be installed and operated by trained personnel. Instructions for use, installation instructions and the relevant regulations must be observed strictly.

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