

Dear Readers,



in 1961 my father, Peter Berghaus, founded the company Berghaus Verkehrstechnik. We owe the first radio-controlled traffic light and many other traffic technology products to his pioneering spirit and constant endeavours to make our roads safer. Establishing a company that rents out materials that secure construction sites; M+V [now: AVS]; continuously new services and ideas for new products; being a trailblazer in relevant panels of this industry – those are the foundations the AVS Group is based on today.

#### The future needs its origin

Today the AVS Group, which originates from the Peter Berghaus family business, is represented internationally. I have continued to apply my father's pioneering spirit in the Berghaus traffic technology and AVS for several decades. We believe in the power and experience of small businesses with long-term traditions. As part of our corporate philosophy, the direct and personal contact with our customers is just as important to us as our focus on the services we provide. The development of the AVS Group is based on the association of small businesses with long-term regional experience. As of February 1st, 2020, I retired from the business operations I have been handling as the CEO, yet I will continue to act in my function as partner of the AVS Group. From now on, I will assume a new responsibility as a member of the Advisory Board of the Group and support AVS as a consultant. I am more than pleased that Hendrik Hücke (former CFO) – someone from our own ranks, who will bring his many years of experience to the job – will be my successor as CEO. I would like you to place your trust in Hendrik Hücke as much as you have done in me, and I wish Mr. Hücke lots of success in his new position.

Sincerely  
Dieter Berghaus, Council Member




Hendrik Hücke, CEO

## Developed for you: New products

Peter Berghaus, the founder, already experimented with radio-controlled traffic lights when there weren't any radio frequencies available for them yet. The first traffic safety products were already developed in the early 1960s. We have been keeping up that pioneering spirit.

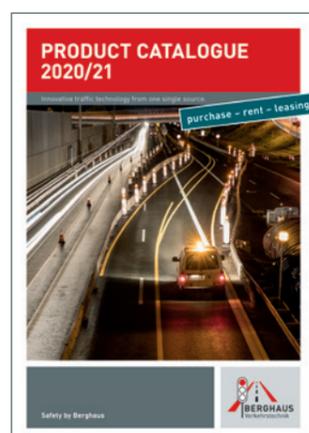
You will find our latest developments, EPB 24 with panel PC (touchpad), the transportation device for tilting stands EE0760, and ProTec 161, on the following pages and of course on our websites, [avs-verkehrssicherung.de](http://avs-verkehrssicherung.de) and [berghaus-verkehrstechnik.de](http://berghaus-verkehrstechnik.de) as well.



## Assembled for you: Our 2020/21 catalog

The new Berghaus product catalog will be available as of April 2020. You may look forward to our tested assortment and innovative new solutions.

The catalog, which contains more than 80 pages of information and over 200 pictures featuring the Berghaus product range, will be published in time for the Intertraffic. Several new products and further development of products complement our proven assortment. Arranged by product groups, our catalogue presents the following and more: temporary traffic control light system, mobile LED pre-warnings, warning trailers, mobile traffic light systems as well as mobile road restraint systems used to secure construction sites on motorways and in downtown areas.



Starting at the end of April, the new catalogue as well as all product brochures and manuals may be downloaded from our homepage: [berghaus-verkehrstechnik.de/download/produktkatalog](http://berghaus-verkehrstechnik.de/download/produktkatalog)

## On location for you: Intertraffic Amsterdam, April 21<sup>st</sup> – 24<sup>th</sup>, 2020

Are you planning to visit the Intertraffic in Amsterdam and do you want to get informed about the product novelties offered by Berghaus Verkehrstechnik?

If you do, we will be happy to take care of your entrance fee by being our guest because in the trade fair year of 2020 we again provide free tickets in the form of a free online registration for our loyal customers.

Please register in advance by using the registration link on our homepage [berghaus-verkehrstechnik.de](http://berghaus-verkehrstechnik.de), which is directly linked to the trade fair organizer, RAI. We are looking forward to welcoming you at our booth **01.406 in Hall 1**. See you there!



## Traffic-light courses and product introductions for your qualification:

Our traffic-light courses were conducted in January and February of 2020. All available slots were booked very quickly.

If you are interested in undergoing traffic-light training or in an individual product introduction, please contact our organization:

Thomas Keller, [thomas.keller@berghaus-verkehrstechnik.de](mailto:thomas.keller@berghaus-verkehrstechnik.de)

## Put together for you: The latest information

You may find out more about the Berghaus News, training schedules and any other information on the internet.

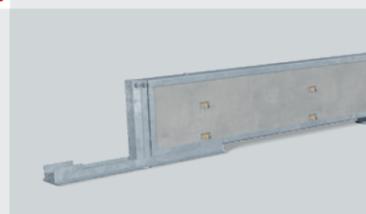
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Now with touch screen!

# EPB 24 Multiprocessor P – with innovative user interface



The mobile traffic light controller EPB 24 Multiprocessor controls temporary large intersection traffic signal systems, requiring a minimum of time and cables. This enables you to locally control up to 24 signal groups with a maximum of 48 power cards for 96 three-part, fully monitored LED traffic light signal heads with the master and slave controllers of the EPB 24 series.

The extended operating option of the new EPB 24 controllers is brand new. Now inputs and searches that used to require a laptop equipped with AmpelTools can easily be done on the controller on location via a built-in panel PC with touch screen.

**Your new options:**

- Operation of the system via built-in panel PC without requiring a laptop
- Touch screen for the input and operations directly on the controller
- Entering of data into the controller on location without requiring a laptop



- Modification/adaptation of programme data on site [such as green phase/progressive signalling]
- Additional novel option: modem for the encrypted and safe remote operation via the Internet
- Controller can be configured so as to send default information by e-mail [requires optional modem]
- The features print/copy of target/actual data, interim time and interlocking matrix, signal safety feature, etc. can be activated via the controller and stored as PDF files on a USB stick
- It is possible to send that date directly by e-mail from the system [requires optional modem]
- Data comes with unequivocal control ID number and can therefore be perfectly allocated regarding time/date and controller
- During the acceptance process on site, the persons in charge can get a close look at the data and can, if desired, copy data on a USB stick or have it sent to them by e-mail from the controller [requires optional modem]
- The internal logbook and detailed operating logbook can be viewed directly on the panel PC

Do you also want to profit from the new technical options of the handy touch screen when using your EPB 24 controller? We have the technical facilities to upgrade the panel PC as well as the new internet modem, even for existing EPB 24 controllers. We will be happy to give you an individual quote.

- The technician can take the programme data along on a USB stick when implementing the signal system on site and upload it into, respectively from, the system
- The functions "light test" and "allocation test" can be triggered directly on the controller

## Storage and transportation rack for hinged sign stands

We manufacture various mounting devices – suitable for just about any application – for a fast and secure mounting of traffic and road works signs, laying signal cables overhead, as stand mast and cantilever for traffic signal systems, etc.

The tilting sign stand made of aluminium (EE0760) is particularly suited for one-day road works since it can be folded up and transported in vehicles without using much space. It has been approved for stability levels up to K6. Our product range has now been supplemented by a handy storage and transportation rack that guarantees the safe transportation of larger numbers of items. This compact rack, which is also made of aluminium, lets you transport up to 10 sign stands simultaneously and load them onto the vehicle with a forklift.

- Optimized safety during transportation – eliminating the need to secure each sign stand individually
- Quick and easy loading – 10 sign stands can be loaded at the same time
- Space-saving stackability – up to 3 transportation racks can be stacked in your warehouse
- Overview in your warehouse – up to 30 tilting stands can be stored in a space of 1x1m

Measurements of storage and transportation rack: approx. 100x100x156 cm [length x width x height]; stack height [on top of each other]: 137 cm; weight: approx. 30 kilogrammes



## Berghaus Traffic-Light Courses: Full House



This year (Jan./Feb.), our tried-and-true traffic-light courses traditionally were again conducted at our head office in Kürten (NRW). A total of 80 members of renowned companies specializing in traffic safety and signalling technology, road traffic authorities, road maintenance depots and municipal building yards from all over Germany participated in our training courses.

Beginners as well as advanced participants learned lots of new things in the different two-day seminars that complemented each other. In addition to the technical provisions and guidelines for construction site traffic lights (such as RiLSA, TL-LSA), the preparation and implementation of signal timetables as well as the operation of traffic light controllers and on-site troubleshooting were course subjects.

The new test function of AmpelTools was a feature that was particularly popular with the course participants. This software carries out a fully automatic, complete signal safety feature test for any potential signal condition of the outdoor facility on site, which used to be rather time-consuming because it had to be done manually until now [See Berghaus News 61 for how it works].

The participants also greatly appreciated the introduction of the new panel PC with touch screen for the EPB 24. It provides technicians on site with many more options of how to operate the controller without a laptop.

Operations Manager Alfred Wurth and Technician Uwe Banischewski guided the participants through the various subjects while providing them with valuable advice and tricks learned in their 35+ years of professional experience on the subject of "mobile traffic light technology".

In addition to our standard traffic-light courses, we conduct individual seminars on the topic of "mobile traffic light technology" in our training and exhibition room. We will be happy to make you an individual offer.

## ProTec 161 – the slimmest H1/W3 road restraint system!

ProTec 161 is a slim road restraint system that can be erected without supports – successfully tested according to DIN EN 1317 with an effective range of W3 for containment levels N2, H1 and L1.

### Improvement of a tested solution: Higher containment level and a smaller effective range

By modifying ProTec 160 with patented connecting elements and a novel central stand, ProTec 161 was created: a slim crash barrier system that can be erected without supports, suitable for temporary use on construction sites. ProTec 161 passed the test in accordance with DIN EN 1317 and boasts a very small effective range W3 on containment levels N2, H1 and L1, i. e. more powerful restraint.

Containment level L1 with effective range W3 is a solid supplement of the portfolio particularly for the European market. In order to obtain the improved ProTec 161, the standard elements of the tried-and-true ProTec 160 were connected with newly developed central stands that are force-fit and screwed to the 10-metre elements with two additional central bases. This minimizes the pressure the crash barrier puts on the contact surfaces, sustainably protecting road surfaces.

The elements of ProTec 160 have been approved for the list of mobile crash barrier in accordance with TL-TS of the German Federal Highway Research Institute (BAST) since 2010.

### Changed road conditions

This crash barrier system with its low weight and the rubber-padded contact surface reduces the risk of undesired pressure marks that may be caused when used for longer periods of time on porous surfaces or during hot summer temperatures.

### Innovation meets safety

This innovation enabled the AVS Group once again to further develop the crash barriers that are part of the renowned ProTec Family and have already been tested many times in practical use. Successful impact tests have shown that, like the rest of the ProTec Series, the new ProTec 161 is suitable for higher levels of containment and has considerable safety reserves.

For safety is what impels our developers to give their best: By conducting periodical tests and impact tests, we make the road sites worked on still safer by providing high-quality, reliable and light-weight crash barrier systems with the slimmest widths possible.



### An overview of the advantages of ProTec 161:

- Successful test according to DIN EN 1317 on containment levels N2, H1 and L1
- Narrow width of 25 cm – only little space required
- Reflectors mounted in a way that shields them from impacts
- Very permeable
- No risk of aquaplaning or compilation of dirt
- The rubber-padded stands protect the road surface
- Quick and easy mounting
- Transition elements available for all ProTec systems
- Light-weight, therefore a large transportation volume possible

## Always better than the rest – products from our own development and production

**Tinkerer, craftsman and always one step ahead of others: With his ideas, Peter Berghaus has created the nucleus of AVS Verkehrssicherung.**

Peter Berghaus, the founder, already experimented with radio-controlled traffic lights when there were no radio frequencies available yet. We continue that pioneering spirit by developing and producing our own products at various locations. Digitization and the "Internet of Things" have long since become part of technical traffic safety – and we promote that development further. Signs with LED technology that you can adapt to the traffic situation on site while staying at your desk.

Mobile congestion warning signs that assess the traffic volume by means of special detectors. GPS devices for construction site maintenance.

Or our **ProTec mobile crash barrier systems**, which have been further developed and tested in accordance with common standards. While in the 1990s road restraint systems still consisted only of steel, the combination of steel and concrete used at AVS is today's standard. While road restraint systems used to consist of assembled 2-metre short components, we now deliver strands of up to 16 m in length. A logistic masterpiece we get on the road day after day and night after night with our vehicle fleet, which has been developed for that very purpose.

When manufacturing the road restraints, we accept nothing less than top quality. After all, the **ProTec mobile crash barrier systems** will later protect the road users on the one side and the construction workers on the other side of the wall. Only the best is good enough for us: The quality-tested material of our reliable suppliers, such as Heidelberger Beton, guarantees high-quality production and processing at different locations in Germany – making the road restraint systems always available near our projects.



# Big steps taken by the AVS Group

Our EU-certified products for traffic safety are in great demand – we continue to expand our national and international presence in conjunction with our partners, co-operations and the long-term experience of small businesses.

The AVS Group has been expanding its full-coverage network in Northern Germany, the greater area of Fürth, Brandenburg and Neu-Brandenburg. In addition to new AVS locations, such as Sottrum near Bremen and Bielefeld, the following companies have enriched the AVS Group with their many years of regional experience since 2019:

- AVS Fürth GmbH (formerly Schötz Verkehrs- und Arbeitsstellensicherung GmbH)
- WaKo GmbH, Hallstadt
- Lorenz GmbH, Wittstock/Döbeln/Duisburg
- AVS Saarbrücken GmbH (formerly Implenla SVA GmbH)

Internationally, the AVS Group is present at more than 10 locations by now:

- AVS Denmark with subsidiaries in Gadstrup and Fredericia
- AVS Latvia
- Fero Group Belgium

In other countries, AVS enjoys co-operations with our long-term partners. For we want to make use of our reputation as a reliable partner and innovative leader abroad – the demands for more protection are becoming louder; more and more dilapidated roads and bridges are in need of being restored.

Our technical installations are also in use around the globe: Berghaus traffic lights control traffic for instance on the Airport of Auckland/

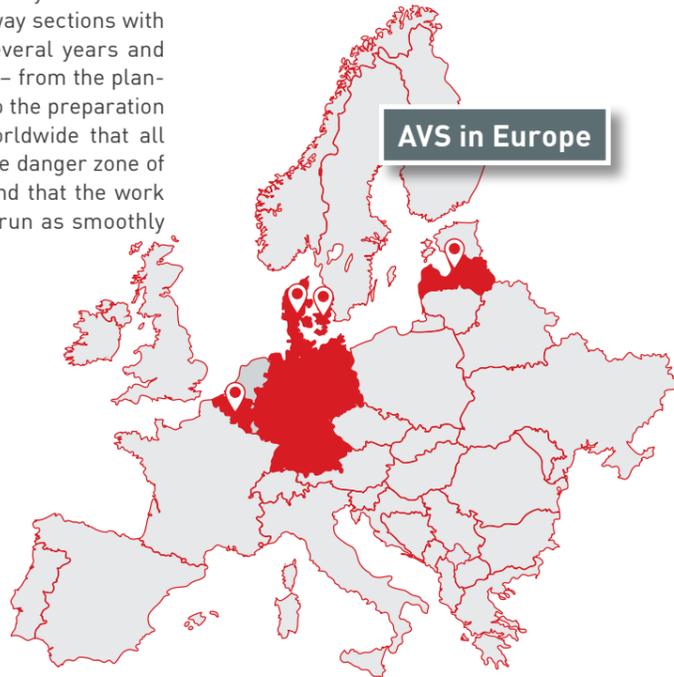
New Zealand or in Dubai. Our ProTec crash barrier systems are even employed in Israel and overseas.

**Whether small intersections or large projects – AVS provides everything from one provider**

True to our motto, we have complemented our service portfolio by permanent markings and maintenance & control drives. Whether roads, intersections and tunnels in city centres or the restoration of whole freeway sections with a projected time frame of several years and supra-regional competencies – from the planning and consulting process to the preparation and assembly, we ensure worldwide that all road users will get through the danger zone of a construction site safely – and that the work on any construction site will run as smoothly as possible.



AVS – full coverage in Germany



AVS in Europe

## The management of the AVS Group

The AVS Group has been managed by experienced personalities for many years.

Effective February 1st, 2020, Hendrik Hücke has taken over the responsibilities of Dieter Berghaus, who will withdraw from business operations and work as a consultant. Andreas Schwingeler is in charge of Sales Germany, while Dirk Schönauer is in charge of Sales International.



**Hendrik Hücke, CEO:**

- Presidency and corporate policy
- Strategy
- Finance
- Mergers & Acquisitions
- IT



**Andreas Schwingeler, COO:**

- Operative business in-country
- Development of road restraint systems



**Dirk Schönauer, COO International:**

- Operative business international
- Marketing
- Mergers & Acquisitions

## Sustainability in the AVS Group

**ESG: Ecologic and social aspects as well as responsible management mark all of our actions.**

**ESG: Good for the environment. Good for society. Good for performance.**

Everybody is talking about sustainability. It is also very important to the AVS Group to ensure sustainability in everything we do and to assume responsibility for people and the environment. With the aid of the ESG indicators (Environmental, Social, Governance), AVS actively supports the sustainability of the corporation. We apply sophisticated standards to ensure that AVS is a good and reliable partner, supplier and employer. AVS has already made active commitments in the following areas:

### Environmental:

AVS has turned the use of raw materials, energy, water and waste into energy and environmental management and was able to considerably reduce the use just by making the data visible. We also count on sustainable behaviour when it comes to our suppliers, mainly purchase eco-friendly materials or use substances that do not strain the environment at all – for instance with the AVS PeelJet that only requires water to remove markings on the roads.

### Social:

Work processes and working conditions have been optimized to increase labour safety and occupational safety even more. We have invested in advanced training and qualification measures of our employees by implementing our e-learning platform. We apply the AVS Code of Conduct so as to advocate versatility and equal opportunity as well as human rights.

### Governance:

By establishing the AVS Guidelines on anti-trust law, money laundering, economic sanctions, compliance and anti-corruption, we have decisively contributed to making our processes transparent and lawful. Every employee, customer and supplier can report potential misconduct to the hotline for informants (Law Office AC Tischendorf Rechtsanwälte Frankfurt, Phone No. +49 69 2470 9783; hinweisgeber@actlegal-act.com) at any time. The IT and Privacy Act Guidelines as well as the appointment of data protection officers are also decisive factors that provide orientation and suggestions about these issues to every employee.



### Sustainable commercial use:

Our most current project is the relocation of our subsidiary WaKo to a sustainable new building in Memmelsdorf-Schmerldorf in the spring of 2020. The heat for the building is provided by ground collectors. Brine heat pumps heat it in the winter and cool it in the summer. The energy for the heat pumps is created by solar energy. This system is one of the most effective and eco-friendly heating systems in the world. For us, the relocation is symbolic: Energy and the environment are our most valuable goods, and sustainable solutions are an important component of corporate development.



VERKEHRSSICHERUNG



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