



# Smart Cities

Solutions for the intelligent city of tomorrow

# Designing intelligent urban living spaces

The globally increasing number of city dwellers, increasing globalization, climate change, and technological advances are having an impact on urban living space. Increasing utilization of space, greater volumes of traffic, bottlenecks in supply and disposal, as well as higher levels of air and noise pollution are presenting cities with new challenges.

Phoenix Contact is contributing to the structured transformation of urban spaces into smart cities with a broad range of products, innovative systems, and solutions, as well as expertise in industry-specific applications and technology.

## Your advantages

- ✓ Optimized management costs, thanks to urban data platforms
- ✓ Easy replication of solutions in other cities, thanks to reference architecture
- ✓ Minimized operating costs, e.g. thanks to the needs-based control of various utilities



## Building infrastructure

Intelligent buildings will be an integral part of smart cities in the future. If they are intelligently networked and integrated into the overall concept, the buildings can contribute to the efficient, stable, and economical city concept, e.g. as a storage system or consumer in the field of energy supply. Our Emalytics building management system enables the location-independent control and monitoring of various properties.

## Supply and disposal

Digitalization is an important key for the future supply and disposal infrastructure of smart cities. Data serves as the raw material for numerous smart technologies and applications for ensuring the stability and availability of supply. By coupling and evaluating the widest range of data, complex and critical infrastructures can be controlled in real time, efficiently and reliably.

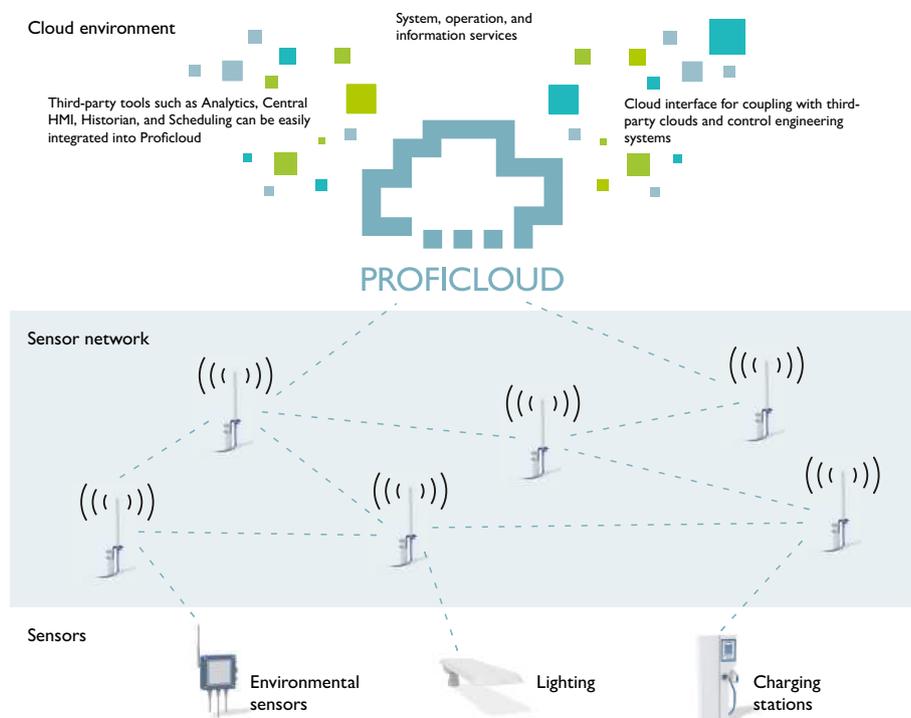
## Mobility and logistics

Intelligent traffic concepts are key components of smart cities for the efficient control of changing goods traffic and the movement of people. The volume of traffic can be reduced through traffic management systems and the development of the transportation infrastructure. An intelligent street lighting system can also provide additional valuable functions, such as the integration of sensors for traffic and environmental data, and the integrated charging infrastructure for electric vehicles.

## System overview of a smart city

Smart city concepts demand that the city be considered as an integrated, intelligent, and efficient complete system that holistically networks the subsystems of the city together.

The relevant city data is acquired via sensors, and concentrated and standardized via gateways. A superordinate cloud platform processes this data and presents it as a fully digital representation of all utilities and processes. Based on this, the data is used for the holistic control of the city, as well as for visualization to create the basis for the livable, urban space of tomorrow.



## In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 17,400 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.



You will find our complete product range at:  
[phoenixcontact.com](http://phoenixcontact.com)

PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstraße 8  
32825 Blomberg, Germany  
Phone: +49 52 35 3-00  
Fax: +49 52 35 3-4 12 00  
E-mail: [info@phoenixcontact.com](mailto:info@phoenixcontact.com)  
[phoenixcontact.com](http://phoenixcontact.com)