



microSYST has supplied LED displays for carbon-neutral ICE factory

120 for 50

Up to 50 meters reading distance – a character height of 120 mm and a crystal clear LED technology make this possible. In Europe’s most modern and top environmental Deutsche Bahn ICE factory large format LED displays made by the supplier of system electronics microSYST are now visualising important production data. Double-sided display screens ensure an efficient use of technology and a high level of information at the same time.

Uhrzeit	km/h	Zugnr.	Abfahrt
09:30	34	1368	12:34
Instandhaltungsstufe			733A
Waggon 23 - Stufe 3			
Waggon 08 - Stufe 5			

Advantages at a glance

- Increase in productivity
- Simple connection and control via Profinet interface
- Fanless and maintenance-free technology

Efficient visualisation of production data on a site of 23 hectares

In the carbon-neutral ICE factory Köln-Nippes all ICE series including also the latest generation ICE 4 are maintained there. The factory with 23 hectares in total has several kilometres of railway tracks and 8 maintenance centres. In order to be able to indicate any important information regarding the maintenance level of each railway wagon, the train number and other maintenance-specific parameters DB has decided to install energy-efficient and high-contrast large format LED displays made by microSYST. Due to some permanent indicated units it’s easier for employees to assign the different values to be able to obtain quickly and easily any important information.

Variable character height and double-sided display screens

According to the requirements of Deutsche Bahn, microSYST has developed and manufactured a number of large format LED displays which are used in the maintenance centres. Despite of the double-sided display screens, the construction as a whole with a depth of only 8,7 centimetres is remarkable slim – due to the **fanless and maintenance-free technology**. The variable character height of up to 120 millimetres in combination with the **powerful** and high-contrast LEDs enables best reading conditions even from a distance of 50 metres.

Easy data transfer

microSYST implemented the required data transfer via **Profinet** by using an integrated interface. The display housing itself convinces with its robust aluminium frame-type construction. With appropriate seals in the frame the **IP54 protection class** for the protection against water spraying and dust deposits will be ensured.

Benefits regarding quality, employees and travellers

In addition to the aim of improving employee’s level of information and the related higher maintenance quality at the ICE plant, the error rate was reduced and **productivity increased** at the same time. „Travelling persons“ says Berthold Huber, member of the Deutsche Bahn passenger transport management board, „benefit twice: rail travel will not only be more environmentally-friendly due to our carbon-neutral ICE plant but we will also increase the comfort and reliability of our ICE trains by quadrupling our maintenance capacities.“ One important step is the installation of the LED production data displays made by microSYST. And not only Harald Kilian, owner and managing director of the medium-sized system electronics company from Northern Bavaria, is particularly proud of this.