Connect your pressure measurement to the future.

The new Cerabar and Deltabar. More IIoT. More productivity. More process safety.





More IIoT

What does Industrial Internet of Things (IIoT) mean to Endress+Hauser?

The answer is simple: **Digital functions** that immediately improve process automation. **Real benefits** that make work easier for you and your employees.

What this means in practice is evident in the new Cerabar and Deltabar. Thanks to the IIoT applications of these pressure transmitters, **productivity and safety** are no longer mutually exclusive.

The Cerabar and Deltabar feature **Heartbeat Technology** from Endress+Hauser and make valuable data available to you in real time. What's more, you can access the devices very easily via Bluetooth. This **connectivity** enables enormous time- and cost-savings.





Heartbeat Technology: How to make the most of your data resources

The Cerabar and Deltabar pressure measuring devices are fitted with smart sensors and Heartbeat Technology from Endress+Hauser, thus allowing **field data** to be determined in real time. Besides the pure measured value, they provide additional information that can be used for detailed monitoring.

- App-based, guided device verification including documentation, without interrupting the process.
- Predictive maintenance is possible, as is the early detection of plugged impulse lines, for example.
- Additional measured variables are recorded, such as pressure peaks caused by water and steam hammer. This enables you to determine the mechanical stress for adjacent plant components.

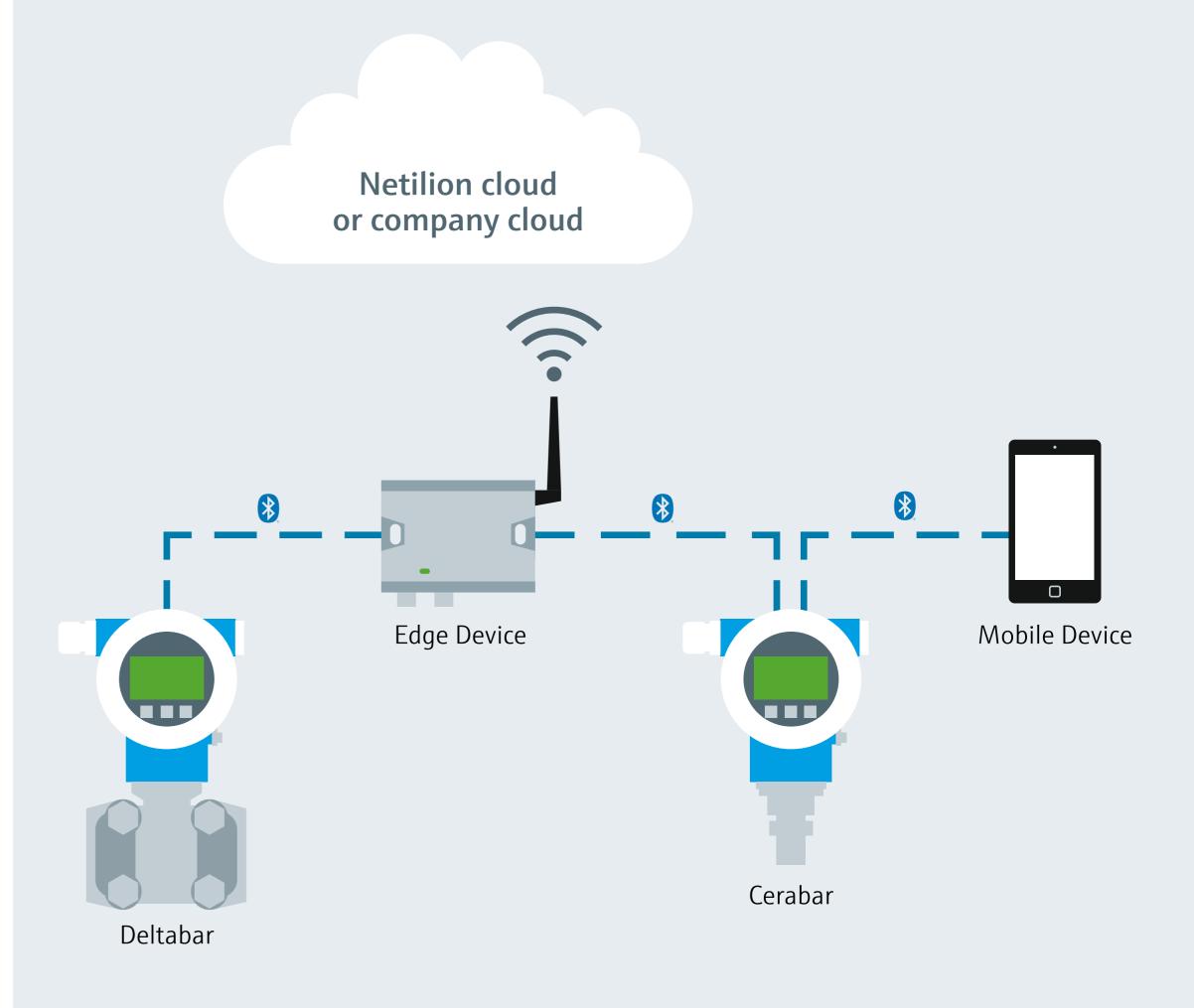




Good connectivity is the key to success

With the IIOT applications from Endress+Hauser, your data reaches the right destination quickly and directly. Cerabar and Deltabar connect via **Bluetooth** to smartphones, tablets and other mobile devices. An edge device transmits the data to your company's own cloud or to the Endress+Hauser Netilion cloud, where they are processed and made usable.

- Wireless commissioning and maintenance of pressure transmitters: no need for you or your employees to access the device directly, thus saving you time and money.
- Diagnostic and process information is always available in real time.
- Your data remains secure: The Bluetooth connection from Endress+Hauser complies with the highest safety standards.

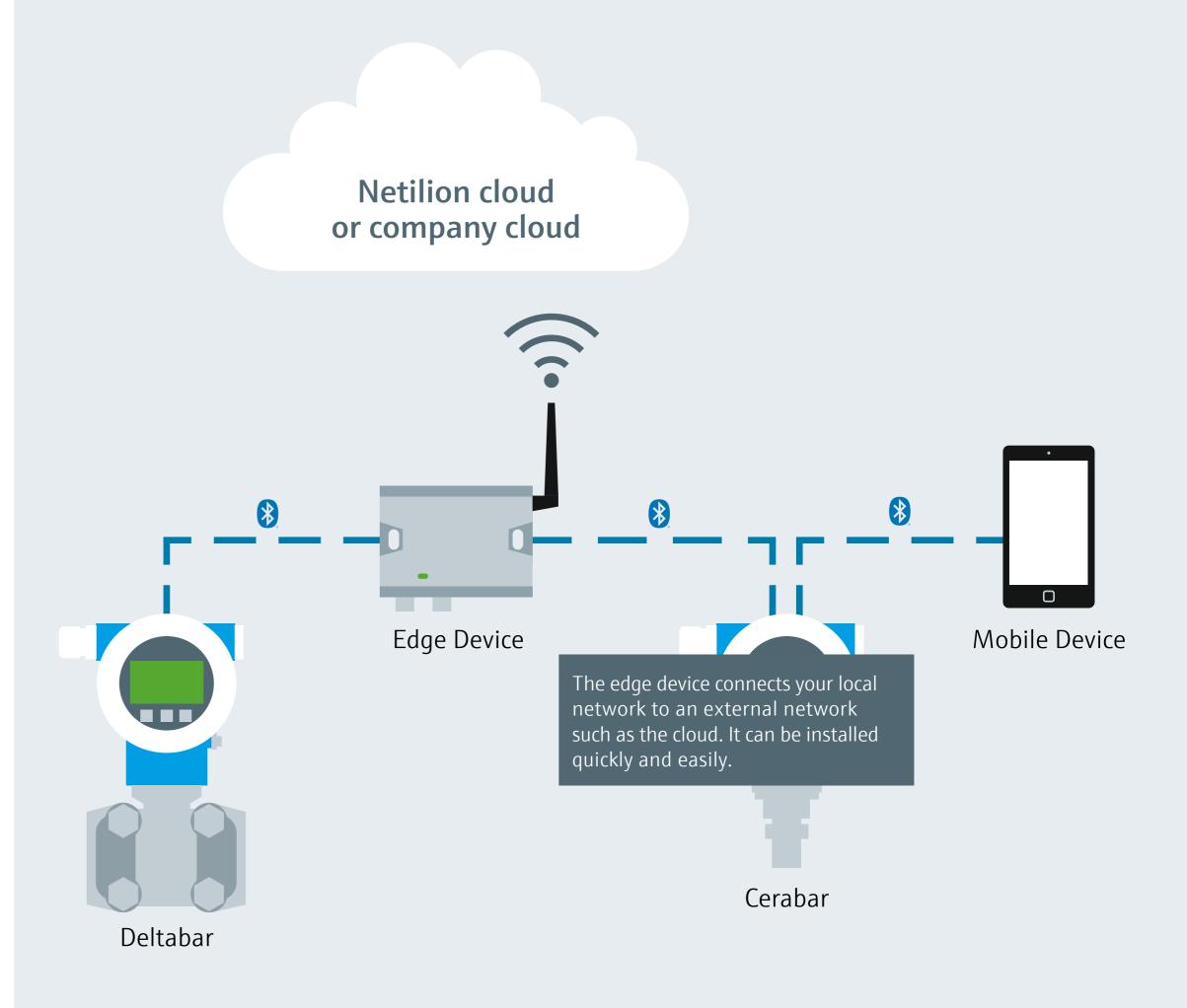




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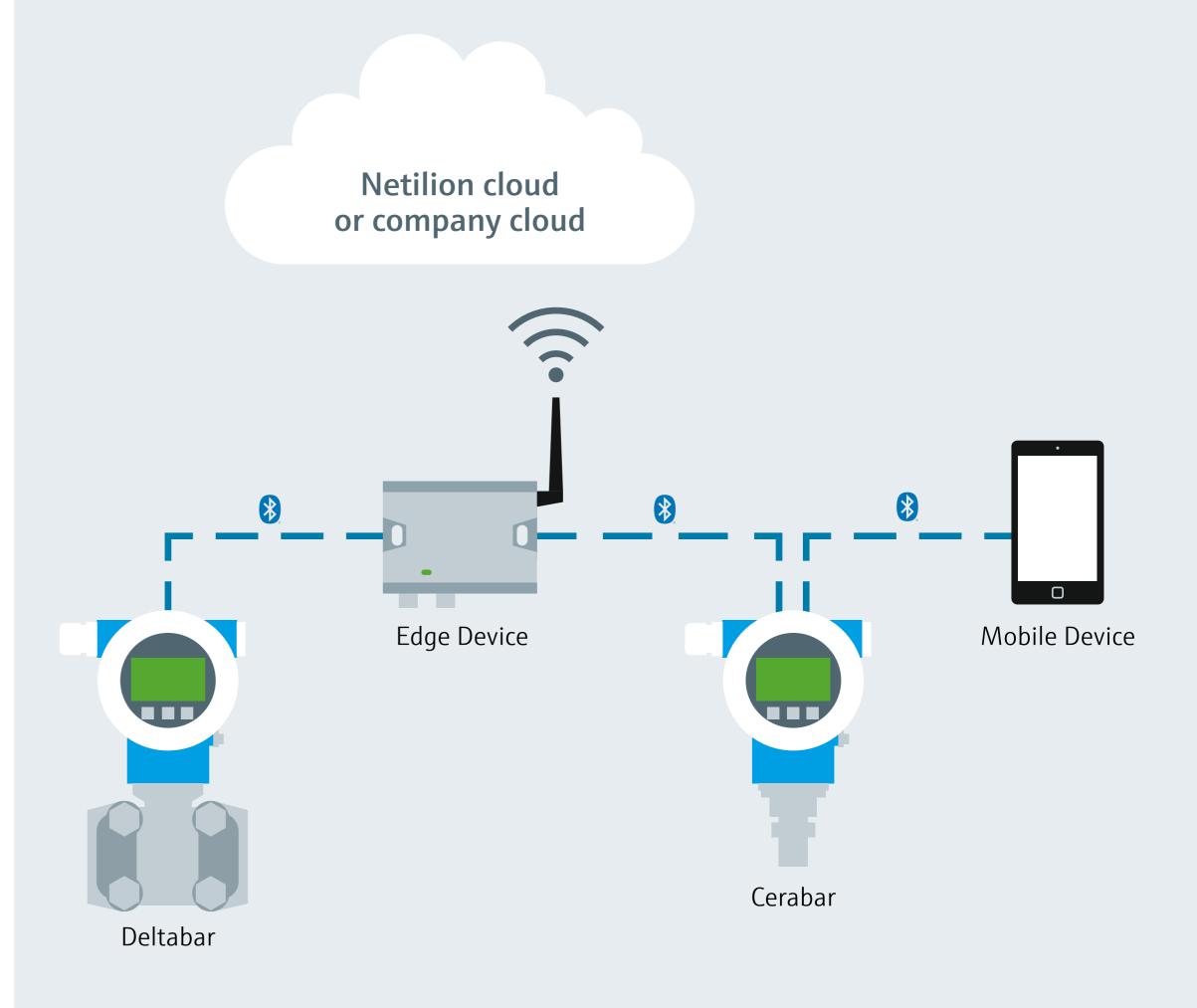




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More productivity

Does productivity play a key role in your industry? The aim is to increase **output** while keeping costs as low as possible. The situation is complicated by a **shortage of skilled workers.** Automation solutions from Endress+Hauser help you to **increase productivity with your existing personnel.** Thanks to the new IIoT features of Cerabar and Deltabar, your team can carry out its tasks more quickly, easily and safely.



"Almost nine in ten employers say that skills shortages are having a negative impact on productivity." 2019 Oil & Gas employment outlook guide

"Skills shortage is a long-term problem that requires near-term action."

KPMG – Drilling Down: Reshaping of the oil and gas workforce

"Reimagined collaborations or Super Teams (humans and intelligent machines working together fruitfully) could give transformative insights and solutions."

Deloitte Insights – The future of work in oil, gas and chemicals



The Bluetooth connection and SmartBlue app make all the difference

Cerabar and Deltabar can be **configured and verified** via the Bluetooth interface using the SmartBlue app from Endress+Hauser. There is no need to connect via HART Handheld or FieldCare/DeviceCare; the app connects to the device immediately after authentication.

Thanks to Heartbeat Technology from Endress+Hauser, verification is completed in 15 seconds, without interrupting the process. The wireless connection also makes for easier operation and maintenance later on. Your personnel no longer need to physically go to points that are dangerous or difficult to access, thus saving time and increasing productivity.

Find out more in this video

Simply faster, simply easier to understand, simply more productive.

- No endless searching for measuring devices with error messages: The display **changes color,** thus identifying the device immediately. Try for yourself and click and
- Error codes are converted to **plain text**, so that users know immediately what needs to be done.
- With the HistoROM mobile memory from Endress+Hauser, the parameters of the measuring point are downloaded without error. In the unlikely event that the electronics need to be replaced, this can be done without the need for specially trained personnel.





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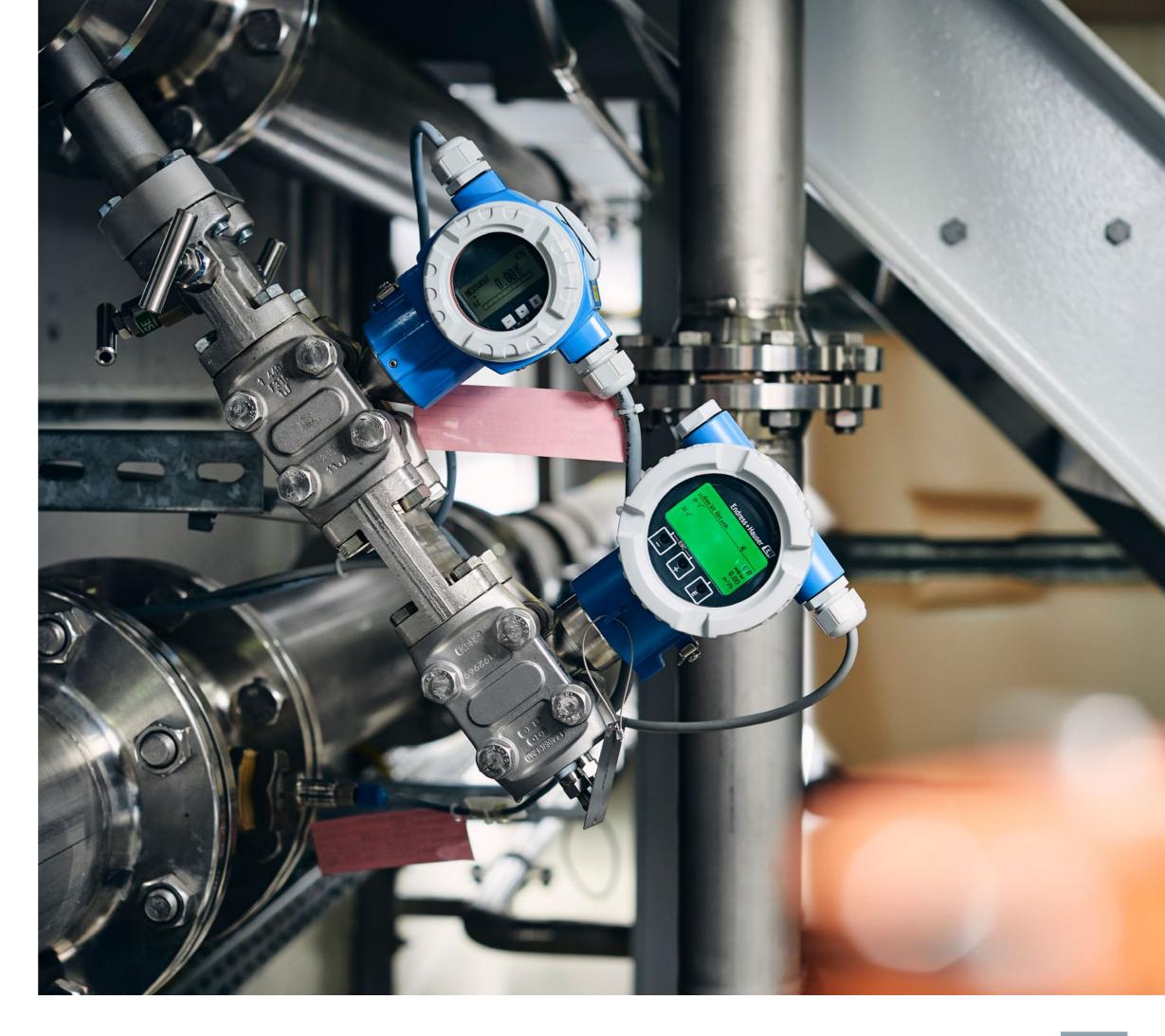


More process safety

The safety of your employees is the number one priority. It is therefore important that devices in safety-instrumented systems (SIL) can be commissioned and proof-tested safely and efficiently. When it comes to compliance with the regulations and standards, no step must be forgotten. Each measure must be documented.

The IIoT applications from Endress+Hauser guarantee that your processes run both **safely and smoothly.** Your team receives exactly the help it needs. And because Cerabar and Deltabar are developed in accordance with the **IEC 61508** standard, they already meet many requirements when they leave the factory.









The required safety-instrumented systems must be proof-tested regularly. To ensure that your employees can do this both carefully and quickly, we provide wizards to assist them. These digital assistants guide you step by step through each process-from commissioning to SIL locking to SIL proof testing. Systematic faults are thus avoided. The applications are self-explanatory and do not require any operating instructions. Since all the relevant parameters are queried automatically, seamless execution is guaranteed.

Using the wizards and the SmartBlue app, SIL proof tests can be carried out twice as quickly as before.

A more efficient way to guarantee process safety

With accessories such as valves or manifolds with test connection, you can calibrate and test the new Cerabar and Deltabar without having to remove the devices.

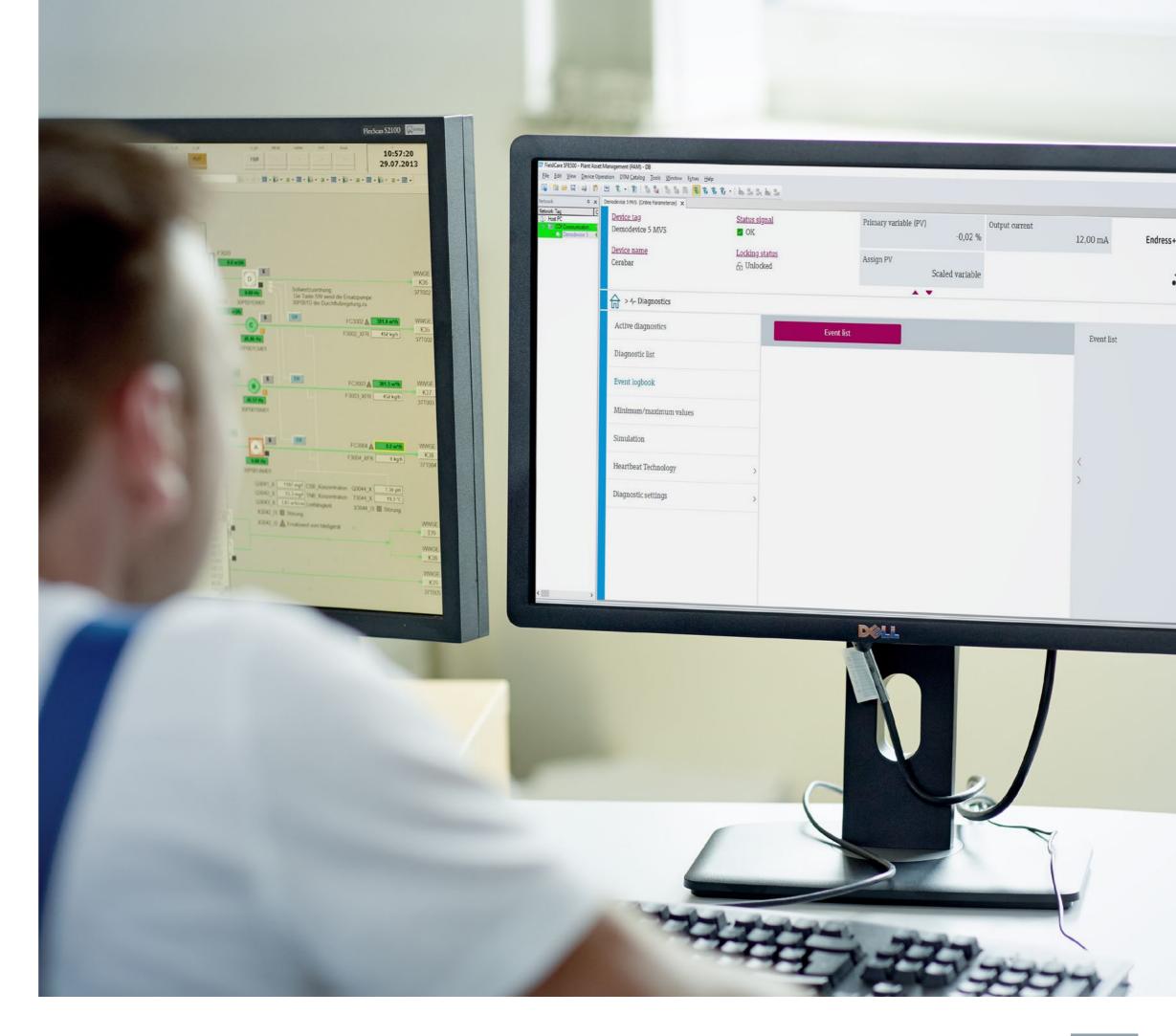




Smart functions for more control

- All safety-related parameters are given a checksum (CRC).
 When the sums before and after maintenance are compared, any unauthorized change is noticed immediately.
- No time wasted on trying to establish who did what and when: The event logbook keeps track of which settings have been changed.
- This allows measures to be taken in good time, before incorrect current values result in safety-critical situations.







More IIoT.More productivity.More process safety.

More information? Why not contact us? We are happy to advise you personally on the new Cerabar and Deltabar.







