

From Nameplate to digital Documentation

OCHSENREITHER, Steffen

ENDRESS+HAUSER

Steffen.ochsenreither@solutions.endress.com

In today's process automation plants, a large number of field devices and sensors from various manufacturers are installed and used. In order to operate these plants economically, a successful Plant Asset Management is necessary to optimize the maintenance and servicing of these assets. Studies have shown that up to 70% during a maintenance job is spent with the search for information - not with the actual maintenance job. With the possibilities available today for the digital documentation of assets, this effort can be drastically reduced. This not only increases the efficiency of the maintenance technicians, but also reduces the risk of faulty / inefficient maintenance, as the correct information is provided to the right person. However, this requires a well-maintained and comprehensive device information database, which usually has to be created.

From Nameplate to digital Documentation

OCHSENREITHER, Steffen

ENDRESS+HAUSER

Steffen.ochsenreither@solutions.endress.com

The biggest obstacle to the creation and introduction of such a device information database is the collection of the device data itself: existing documentation about installed devices is often outdated or not complete, so that this can hardly serve as a basis. There is usually no other way than to go through the system physically, to manually identify, capture, and create the database. Obviously, this method of creating the database presents a great deal of time and personnel. In addition, neither the data consistency nor the actuality of the data is guaranteed. With regards to industry 4.0 and the associated digitalization, the presentation will show a way to create a device database with a smartphone app in just a few steps. For the unambiguous identification of the devices on the level of the system part, the serial number of the device is used, for example. These can be found on the respective markings of the devices, ranging from metallic identification plates to identification methods such as QR codes to digital tag labels such as RFID.

From Nameplate to digital Documentation

OCHSENREITHER, Steffen

ENDRESS+HAUSER

Steffen.ochsenreither@solutions.endress.com

In addition to manual capture, a method for automatically creating this database is also displayed. The electronic name plate is read out using digital communication with the devices, the database is created automatically and filled with device-specific documents.

After the creation of the database, insights for efficient Plant Asset Management will be provided automatically to the user.