



moneo

Simply made for you!

**Who says digitalisation is
easy?**





We do!

ifm system sales: your one source digitalisation partner

What do people really think about when they talk about digitalisation? Where do they think they will struggle? And why?

Digitalisation is not a mystic, magic sword that only the bravest ones are able to pull out of the granite rock.

Digitalisation is more like riding a bicycle. Of course, you must learn it. But yes, you will learn it quickly. All you need to get started is a bike that fits your size and a good teacher on your side. And once you take the first miles, you will never even think about the complex moving and balancing processes that are needed to ride on that steel-on-wheels-thing to any place you want to. You just do it.

Same for digitalisation. And as chance would have it, we don't sell bikes for more than 50 years but are a reliable address for everything you need to start your digitalisation: sensors, infrastructure, software – and expertise.

More comfortable than a ride in Copenhagen

You will get the whole path the sensor data will follow in this adventure 4.0 from us. From one single source. That means: no hurdles, no cobblestones, no dead ends, no missing links, no non-matching interfaces. Just a seamless, flawless avenue. More comfortable than the most comfortable bicycle lane you can imagine – even if you live in Copenhagen.

As we said, we are also there for you to teach and support you on any of your steps on the digitalisation process. We have been specialists for automation and digitalisation for more than five decades and it would be a pleasure for us to share our experience with you. We will help you keep yourself on that bike until you feel confident enough to ride the rest of the path alone. The best-fit equipment and the best possible teacher. Both from one hand.

Let's go for a ride!

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This is how it goes: the flawless ifm data avenue

Do you want to know more about the health status of your fans or the best time to change the mechanical sealing of your pump?

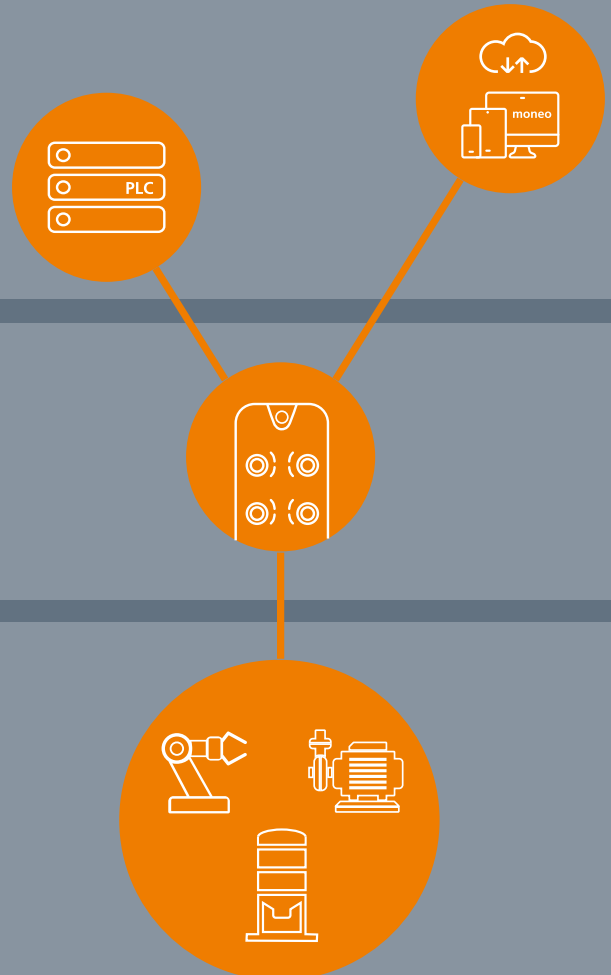
Do you want to be told when your compressor needs maintenance or your cooling circuit has a leak that needs to be fixed? The easiest way to get this information is to let the machines tell you. And the easiest way to get the machines to tell you is to contact us. We know where to put sensors to get the big health picture. We know what infrastructure is needed to get the data to your plc and to your IT level. And we know how to set the alarms to enable you to react early enough to prevent unexpected downtime and save a lot of money.

**And at the end you will know all this, too.
Sounds good? Your machines say yes!**

IT level: Software like the IIoT platform moneo processes the incoming data into value added information that helps the user to optimise his processes like internal and external supply chains or the maintenance management.

Middleware: IO-Link master, diagnostic electronics or edge devices gather and process data and transmit them to any destination where the data is further processed. This can be the plc and at the same time the IT infrastructure with ERP systems, data memories or the cloud.

OT level: Sensors measure values like pressure, temperature, vibration, level or flow. Modern sensors with IO-Link can submit more than one value and also transmit more information like machine runtime or the number of process cycles.





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The software for customised digitalisation

moneo: Our flexible IIoT platform for your individual industrial evolution

Only 5 % of all sensor data is used by the PLC. And the rest? Has huge potential that you should not leave untapped. Properly detected and processed, the remaining 95 percent will give you the best possible insight into your installation. Use them to optimise processes and save resources and costs. This will enable you to get the highest productivity and the best possible product quality out of your machines.

You want to know how? It's quite simple: Use an IIoT software solution that provides you with the right tools and grows with your challenges. Use moneo. From convenient parameter setting of your IO-Link devices and consumption monitoring to status monitoring of your installations: With moneo you can do all this with a single software.

Turn values into added value

Data, values, signals, zeros and ones: This is what sensors generate and transfer to the IT level in the context of digitalisation. With moneo, they become information, a basis for action and added value.

Keep an eye on compressed air consumption across all consumers, optimise the distribution network and detect leaks. Monitor the condition of motors, rotors or tool attachments centrally and continuously – and be informed in real time if values move out of the target range and maintenance is required. You can do all this with our software.

Always the perfect solution

With moneo, we offer you an IIoT solution that always adapts exactly to your current requirements and future goals. No matter whether you want to monitor an installation or a workshop, whether you want to install moneo on a computer, on a physical appliance on site or on a virtual machine in the data centre. moneo is the right choice! When and how you take your industrial evolution to the next level is entirely up to you. You can expand moneo modularly at any time and scale it according to your requirements. This way, the software always offers you exactly the performance you need. That is digitalisation tailored to your needs. That is moneo.





moneo



|IO-Link parameter setting

|Condition monitoring

|Predictive maintenance

|SAP integration

|Energy monitoring



Predictions?

AI instead of a crystal ball!

With the artificial intelligence of the **moneo|DataScience Toolbox**, we are setting in motion the evolution of condition monitoring towards predictive maintenance. With the Smart Limit Watcher, the monitoring of recurring, dynamic process flows attains a new level of precision. Line charts can be closely monitored and deviations from the target curve can be detected even faster and more reliably.

A powerful, intelligent tool that will be followed by others in the future, for example to predict maintenance or replacement cycles more accurately or to predict the development of process values even more precisely in advance. All this without personal AI expertise, which you first have to acquire over years.

The easy-to-use **moneo|DataScience Toolbox*** with its powerful algorithms takes care of the complex work for you. You simply adopt the resulting findings.

* The **moneo|DataScience Toolbox** currently contains the tools **moneo|SmartLimitWatcher** and **moneo|PatternMonitor**

Cloud and SAP: seamlessly upwards

By processing sensor data into relevant information, you have already taken a first important step. So it is only logical to make this information accessible to higher-level information systems in order to draw further benefit from it and to network your systems with each other. Via **connectors**, **moneo** offers you the possibility to seamlessly transfer the data and information relevant to you into your system landscape or cloud platform. This includes services such as AWS IoTCore, Azure IoT Hub or an MQTT broker.

Since mid-2023, moneo has also been providing an OPC UA server.

But sensor information cannot only be further processed via cloud services. Connection to the ERP system offers further options in terms of more efficient planning of material and goods flows, order and maintenance planning.

Therefore, with **Shop Floor Integration**, we offer you a solution that can be integrated into your SAP with minimal effort and acts as an interface to moneo. Levels, maintenance information and other relevant events can then be made available to your core processes in SAP in real time.



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