

XDK Production Performance Management Protocol I XPM120

The machine language for Industry 4.0

The status of production lines and their performance has a big impact on the overall equipment efficiency (OEE).

To reliably monitor machines, production lines and processes and, if necessary, intervene at an early stage, detailed real-time data is required. The freely programmable XDK multi-sensor device with its eight integrated sensors, offers the possibility of taking a holistic picture of the status of your equipment. In combination with the specially developed click to flash software module XPM120, this data can be transferred directly to the Nexeed Production Performance Management (PPM) backend – you get your plants status and optimization potential - at a glance.

XDK with XPM120 and PPM targets on a systematic analysis and a sustainable optimization of production plants and processes



Accelerometer



Digital light sensor



Gyroscope



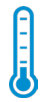
Humidity sensor



Magnetometer



Pressure sensor



Temperature sensor



Acoustic sensor



FEATURES

- ▶ XDK Multi-Sensor Device, XPM120 click to flash firmware and Nexeed Production Performance Management backend building a ready to use system
- ▶ Simple configuration via config-file on SD-Card
- ▶ Simple data acquisition with eight built-in XDK sensors optional sensor extensions
- ▶ Current sensor extension for measuring current flows
- ▶ External temperature measurement board PT100/1000, e.g. for temperature measurement in fluids
- ▶ Four digital inputs via 4DI extension board
- ▶ Sensor sample intervals synchronized with global time server (WLAN connection required)
- ▶ Integration to the customers infrastructure possible
- ▶ Availability of live measurements or historic data
- ▶ Support by Enterprise-WiFi (incl. Server-Certificate-Support)
- ▶ HTTPS-Server-validation via certificates
- ▶ HTTPS with client authentication via certificates
- ▶ FOTA-Support (if supported by server)

BENEFITS

- ▶ Improved OEE:
 - ▶ Maximized machine availability
 - ▶ Increased tool life
 - ▶ Reduced scrap rate
 - ▶ Most efficient error identification and elimination
 - ▶ Minimized production errors
 - ▶ Forecasts of future defects
 - ▶ Efficient digital processes
- ▶ Increased process transparency
- ▶ Flexibility to individualize your system on the one hand, at the other hand: Programming work is not required
- ▶ High availability of Nexeed Production Performance Management applications is ensured

GET IN CONTACT WITH US!

E-Mail: support@bosch-connectivity.com

Website: www.developer.bosch.com/web/xdk

