



WITT&SOHN

IGW Ventilatoren

ToolBox 4.0

**SIMPLE.
SMART.
CLEVER.**

PRODUCE MEASURABLY MORE ECONOMICALLY

INCREASE PRODUCTIVITY & REDUCE COSTS

**WE ANALYSE AND DIGITIZE PHYSICAL MEASUREMENT
DATA IN INDUSTRY, DECENTRALISED IN AN ALL-IN-ONE
DATA COLLECTOR FOR PREVENTIVE MAINTENANCE.**

The ToolBox solution has a very intuitive user interface. A system that is easy to use and manage for everyone.

Our affordable all-in-one package guarantees a complete monitoring solution.

SIMPLE – SMART – CLEVER

DIGITAL LIFE CYCLE MANAGEMENT

OUR TOOL IS SUITABLE FOR

- ✓ **MANUFACTURER OF SUB-ASSEMBLY UNITS:**
Sustainability | Compliance with service intervals (warranty claims) |
Customer support
- ✓ **PLANT OPERATOR:**
Plant safety | Resource utilisation |
Permanent monitoring 24/7
- ✓ **SERVICE PROVIDER:**
Proactive access to the customer |
Cost reduction through remote diagnosis |
Complete knowledge of machines | Digital customer management

SIMPLE – SMART – CLEVER

YOUR ADVANTAGES

- ✓ **Optimum utilization of resources**
- ✓ **Minimization of your downtime costs**
- ✓ **Avoidance of unplanned machine failures**
- ✓ **Uninterrupted monitoring 24/7**
- ✓ **Data transfer to secure cloud**
- ✓ **Reduction of operating and maintenance costs**
- ✓ **Optimization of maintenance strategy**
- ✓ **Increase of planning reliability**
- ✓ **Machine wear detection**
- ✓ **Simple user interface**

CLOUD
SOFTWARE
WEB & APP



Quick machine data readout

Machine running time recording to the hour

Alarm when maintenance intervals are due

Digital machine diary and documentation

Paperless documentation

NFC Offline Objects

Trend analysis of sensor data

Measurability of all physical measured variables

Alarm when limit value is exceeded

Anticipatory maintenance
(active maintenance calendar) using
real-time data

End-of-Life recognition

PREDICTIVE MAINTENANCE

Less costs for new
acquisitions due to longer
life cycles

On-Premises



SAAS

SIMPLE – SMART – CLEVER

TOOLBOX 4.0



PRODUCT DESCRIPTION:

- ✓ 8 analog inputs (4 – 20 mA)
- ✓ 2 digital inputs also configurable as a counter
- ✓ 3 digital outputs (opener/closer)
- ✓ 1 USB
- ✓ 2G/4G mobile communication*
- ✓ Bluetooth/WLAN
- ✓ GPS locating*
- ✓ External power supply 24 VDC
- ✓ Temperature range from -30 to +60 °C
- ✓ IP 66/67

MEASUREMENT OF:

- ✓ Temperatures & vibrations
- ✓ Rotational speeds & fluid levels
- ✓ Differential pressures & torques
- ✓ Moisture, forces & positions
- ✓ Operating hours & cycle times
- ✓ all physical indicators possible

*with optional accessories

PRODUCE MEASURABLY MORE ECONOMICALLY

SENSORS

We offer different sensor packages

- ✓ Available for all physical measurements
- ✓ Industrial standard (4 – 20 mA)
- ✓ Cable length freely selectable
- ✓ Existing compatible sensors can be used
- ✓ Active and passive transmitters



PRODUCE MEASURABLY MORE ECONOMICALLY

DIGITAL WORK LIFE BALANCE

APPLICATION POSSIBILITIES:

- ✓ 24/7 monitoring of sub-assembly units
- ✓ Process monitoring
 - Fans
 - Pumps
 - Engines
 - Compressors
 - Turbines
 - Hydraulic systems
 - Conveyor systems

ADDITIONAL CHARACTERISTICS:

- ✓ Digital monitoring inspections
- ✓ Notification of limit value overruns or underruns via e-mail or at the digital output
- ✓ Active maintenance calendar with reminder function
- ✓ Digital machine diary

Cascading

Measured data export

USB

LAN

3 digital outputs

2 frequency & digital inputs

U/min
kHz

GPS



Functional earth

24
Volt

Power supply

WITT&SOHN
TECH Ventilatoren



ToolBox 4.0

Witz & Sohn AG • Pinneberg • Germany

8 analog inputs
(4-20 mA)

Measurement of all physical indicators possible



vibration



rotational
speed



temperature



pressure



torque



fluid level



oil pollution

ALL IN ONE VIEW

Router



Bluetooth



Identification
via NFC



WLAN
4G (LTE)



Thermal
images



Cloud/
On-Premises

Data transmission
to the secure cloud

SIMPLE – SMART – CLEVER

ANALYZING SOFTWARE



Overview of all machines and data for maintenance

Simple transmission of collected data

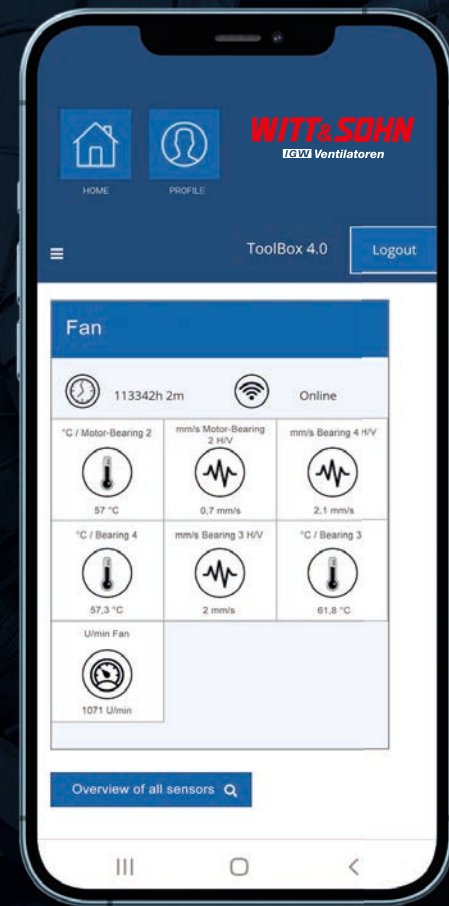
Display of trend graphics

Available worldwide & anytime

Platform independent (operating system & end device)

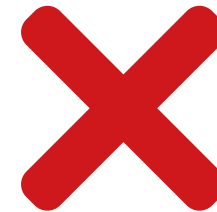
CSV data export / REST-API

No software training necessary



PRODUCE MEASURABLY MORE ECONOMICALLY

DIFFERENCES EXPLAINED



CONTROL CENTER:

A sudden malfunction of the of the sub-assembly unit is not always immediately recognized and detected by the process parameter monitoring responsible for the current process flow.



PREVENTIVE MAINTENANCE:

Measurement and behaviour of the machine parameters for monitoring units. Early detection of problems through trend analysis. Fast reaction through alarm signaling when limit values are exceeded or not reached. Predictive maintenance (active maintenance calendar) using real-time data.

Guarantee for a reliable production.

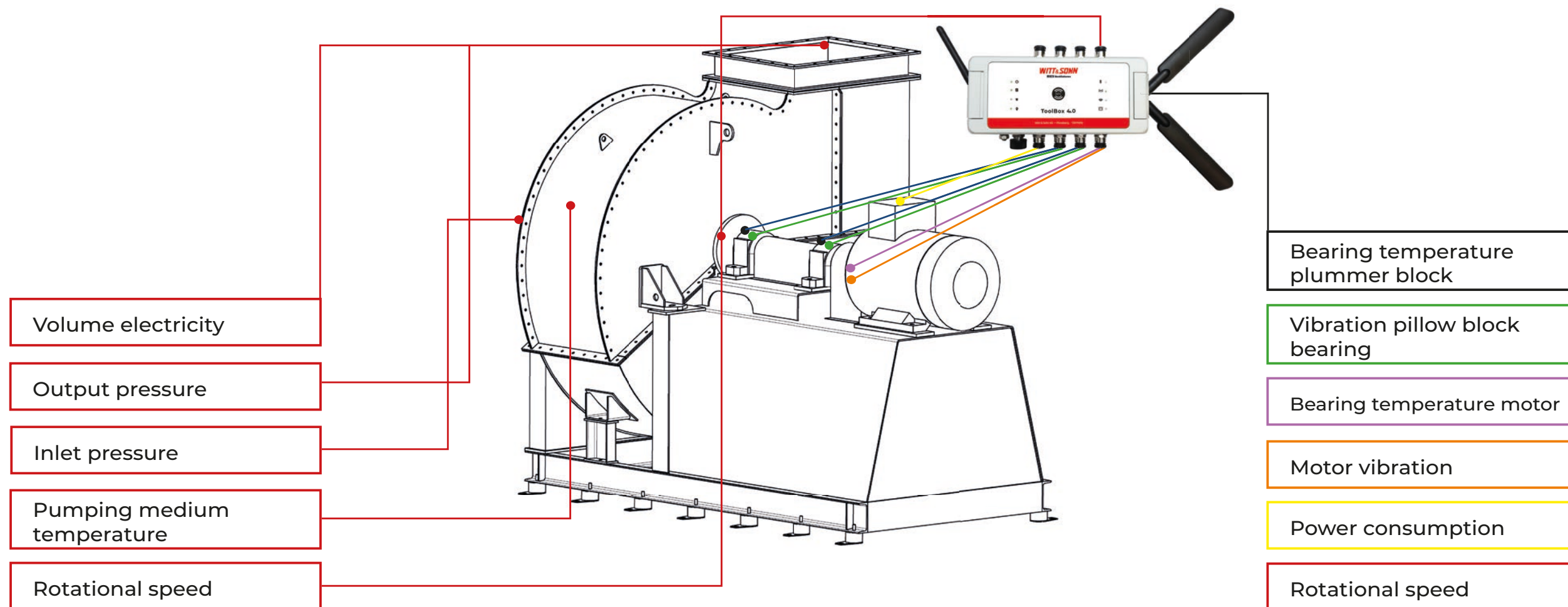
Control center:

Standard process parameters
for measurement and control

VS.

Maintenance:

Machine parameters for
preventive maintenance



EXAMPLE: FAN (MONITORING CAN BE APPLIED TO ANY SUB-ASSEMBLY UNIT)

PRODUCE MEASURABLY MORE ECONOMICALLY

DIGITIZE WITH NFC

YOUR ADVANTAGES WITH THE NFC SOLUTION:

Low cost

Fast installations

Reminder of maintenance intervals

Digital documentation

Simple user interface

Flexible application possibilities

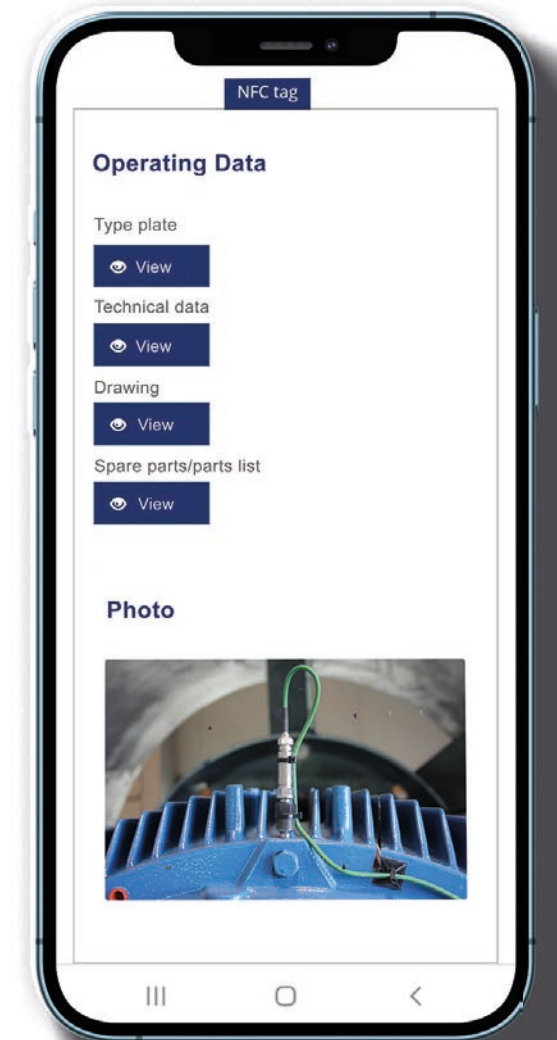
Web app based application

Access PDF

We close the digitalization loop
with our NFC solution

Whether hydraulic hoses, fittings, gate valves or machine type plates, we offer you the possibility to digitalize them holistically as well. Our NFC solution enables you to ensure the digital sustainability of small plants and sub-assembly units without ToolBox.

**WITH OUR SYSTEM, YOU HAVE EVERYTHING
UNDER CONTROL: MAINTENANCE,
DOCUMENTATION, FAIL-SAFETY.**



TOOLBOX 4.0 RESELLER CONCEPT

Talk to your SALES PARTNER about it!

TO OPTIMIZE YOUR DIGITIZATION STRATEGY, YOU
CAN RECEIVE OUR COMPLETE SYSTEM AS A RESELLER
WHITELABEL SOLUTION. BENEFIT FROM OUR IDEA.

ADVANTAGES:

- ✓ Customer data in your own cloud
- ✓ Lower licensing costs
- ✓ Monetization



FANS FOR THE HIGHEST STANDARDS

WITT & SOHN

IGW Ventilatoren

Originally established as a specialist fan supplier to the German merchant shipbuilding industry, Witt & Sohn have grown more than 75 years to become one of the world's leading names in industrial fan technology and associated noise and vibration control.

Witt & Sohn's well proven expertise in axial and centrifugal fan manufacture has today made them a market leader in many specialised, high performance sectors.

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IGW Ventilatoren

WE DIGITIZE.

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