

Transair® Condition Monitoring System For Compressed Air

TCMS™ Gold - Cloud Version - European Market



ENGINEERING YOUR SUCCESS.

TCMS™ Gold Wireless Advanced Measurement Technology

Let Transair® Condition Monitoring System

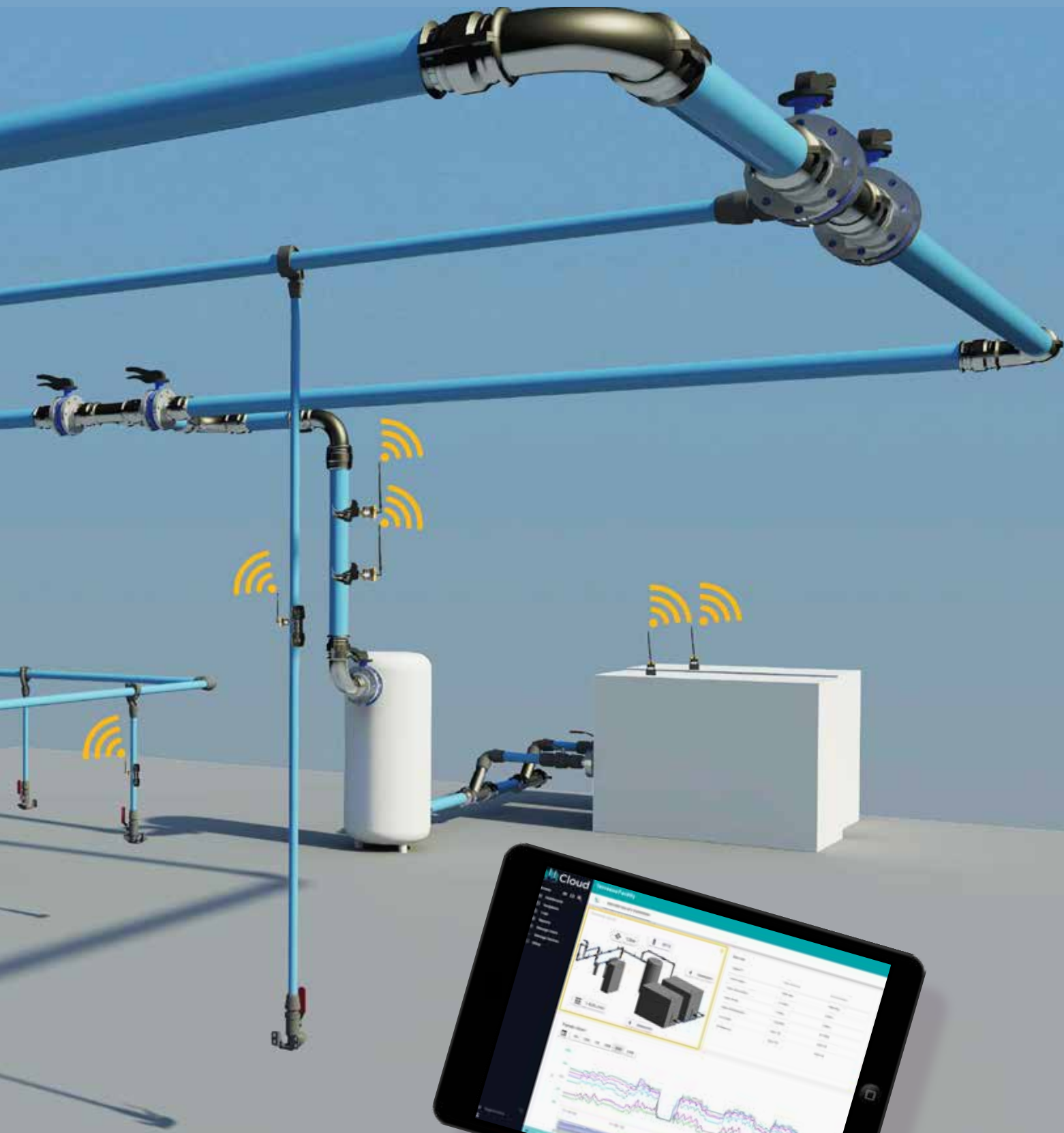
MONITOR your compressed air network,
ALERT you before issue escalation
to **REDUCE DOWNTIME** and
INCREASE PRODUCTIVITY.

Concept

Wireless sensors designed for Transair® modular pipework for continuous remote condition monitoring of a compressed air system, from the compressor room to the machines and equipment

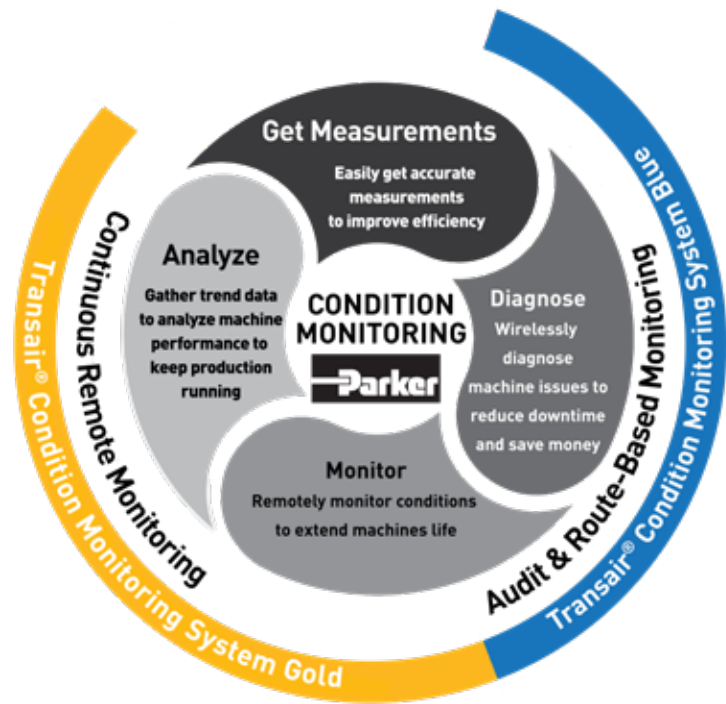
Purpose

The system provides you with **real time data, anytime, anywhere** to make **the right decisions** for managing your compressed air system in a **proactive way.**



Transair® Condition Monitoring System: TCMS™ Overview of the System

A complete range of wireless sensors combined with the Transair® system for state monitoring of a compressed air system, from the compressor room to machinery and equipment.



2 complementary but independent solutions:



TCMS™ Gold for Continuous and Remote Monitoring of Installations

The system **centralises** information from radio frequency sensors, in **real time**, which can be consulted at any time and in any place via an interface to enable you to make the right decisions to **proactively** manage your compressed air system.



TCMS™ Blue for Instant On-Site Measurement

The system makes it possible to collect data from **Bluetooth sensors, on site**, using a mobile device (tablet or smartphone), thanks to a dedicated application, in order to carry out the field surveys necessary for maintenance.

TCMS™ Gold Advantages and Benefits

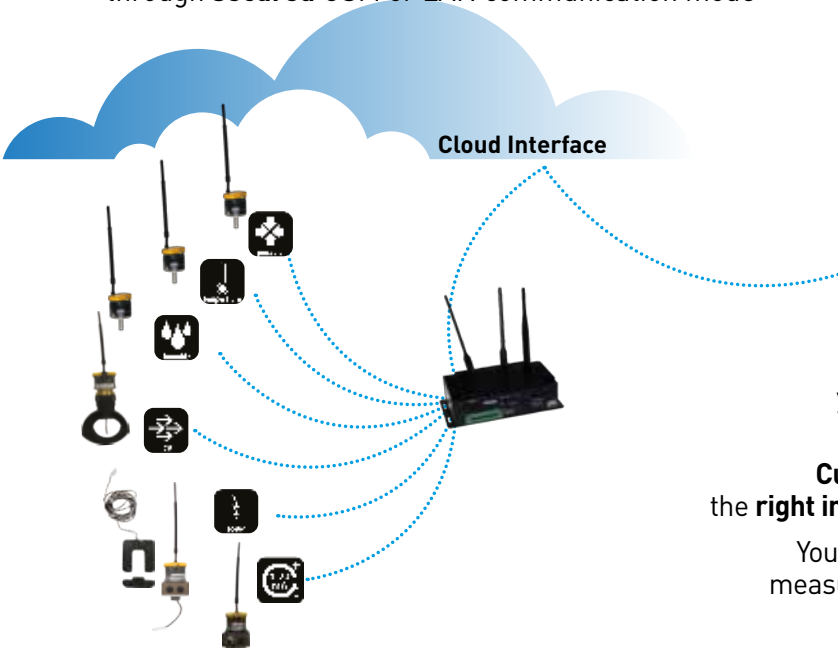


- Remote monitoring, continuously, anytime and from any location
- Management of alerts notified in real time
- Plug & play system, wireless, easy to install
- Low capital investment
- Visual management, trend visualisation
- Issue identification before escalation
- Identification of improvement opportunities

- Peace of mind
- Electricity cost savings
- Maintenance cost savings
- Downtime prevention
- Productivity optimisation
- Extension of asset life of capital investment
- Contribution to ISO 50001 certification

TCMS™ Gold System Architecture

Autonomous sensors and collection server reporting to a **cloud-based** fully customisable interface, through **secured** GSM or LAN communication mode



VOICE OF THE MACHINE™

Through the **easy-to-use, web-based** interface, you have convenient access to your system status and analytics from **any location at any time**.

Customisable alerts save valuable time by pushing the **right information** to you and your team via text or email.

You can also discover new insights by viewing sensor measurements presented in trend charts that allow for **historical trending** and **direct data** download.



Designed by
Compressed Air
Specialists



Plug
and
Play



Data Review
Anytime
Anywhere



TCMS™ Gold Technical Features

- **Wireless** system and **standalone** sensors
- **Measurements:** pressure, temperature, power, humidity, flow
- **Pressure/temperature/humidity sensors:** ready to install, equipped with push to connect technology
- **Flow sensor:** pre-calibrated and pre-mounted with a **Transair®** bracket from **Ø25mm to Ø168mm**
- **Power sensor:** openable coil technology
- Additional **4-20 mA transmitter** equipped with magnetic base to connect your existing wired devices

- **For compressed air**
Pressure: 0 to 16 bar
Temperature: -40°C to +85°C
(for vacuum and inert gas, please contact us)

- **868 MHz frequency**
(other frequency available upon request)

- **Certifications:**



- **IP 65**
- **2 years battery** duration
- **2 years guarantee**

Transair®

Advanced Pipe Systems for Industrial Fluids



Aluminium Range

- **Calibrated Aluminium Pipe**
Qualicoat Painting
- **Diameters (in mm)**
16.5 - 25 - 40 - 50 - 63 - 76 - 100 - 168
- **Colours**
Available in blue - grey - green
Other colours upon request
- **Maximum Working Pressure***
 - 16 bar (-20°C to 45°C) up to 100 mm
 - 13 bar (-20°C to 60°C) for all diameters
 - 7 bar (-20°C to 85°C) for all diameters
- **Vacuum Level**
99,9% (1 mbar absolute pressure)
- **Working Temperature** : -20°C to 85°C
- **NBR Seals**
- **Compatibility**
Lubricated or oil-free compressed air, industrial vacuum, nitrogen (99.99% purity), inert gas

*TÜV certification

Stainless Steel Range

- **Stainless Steel Pipe**
AISI 304 or 316L
- **Diameters (in mm)**
22 - 28 - 42 - 60 - 76 - 100
- **Maximum Working Pressure***
10 bar (-20°C to 60°C) for all diameters
7 bar (-20°C to 90°C) for all diameters
- **Vacuum Level**
99,9% (1 mbar absolute pressure)
- **Working Temperature** -20°C to 90°C
- **EPDM or FKM Seals**
- **Compatibility**
Cooling water, industrial water with additives, lubricating oil, compressed air, vacuum, inert gas

*TÜV certification

Certification



Transair®: Tools and Services



Transair® General Catalogue

Gathers all information, regarding Transair® aluminium and stainless steel product ranges.

Available for download on www.parkertransair.com



Transair® Available for BIM

BIM - Building Information Modeling - is a collaborative e-platform of a construction project, gathering all the actors of this project, according to a common language. All Transair® families are now available, in REVIT format, in **LOD (Level Of Detail) 200 and 400**.



Transair® Flow Calculator

Defines the recommended diameter for your project, estimates your pressure drops and gives the maximum flow rate by diameter.



Transair® Vacuum Calculator

Helps you to size and compare vacuum systems quickly and easily.



Transair® Energy Efficiency Calculator

Evaluates the energy cost of your system and return on investment of a Transair® solution.



Transair® CAD Drawings

View or download Transair® CAD drawings in real time in 2D or 3D.



Transair® Website: www.parkertransair.com

Gives you access to extensive information about the Transair® system, technical data, examples of existing networks and a download centre for catalogues, manuals, software and brochures.



Transair® Quotation Service: transair.quotation@parker.com

Gives you a budgeted or detailed quotation for your project and its implementation.

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