# memmert

# MEMMERT CONNECTIVITY FEATURES

## Benefit from our individual connectivity solution AtmoWEB

**FREE OF CHARGE**

## INTRODUCTION

In 90 years, Memmert has written technical history with the development and production of climatic chambers and temperature control units for laboratories and industry. Started in the 1950s with the construction of the world's most precise temperature control chamber with all-round heating, this was the beginning of continuous innovations from Memmert - Made in Germany.

Connectivity with remote-access and -control has always been one of the core features for Memmert and our products are perfectly suited for these applications. Therefore, AtmoWEB is automatically included in all of Memmerts products – no additional payment necessary. Decades of dialogue with our customers, have perfected our products for the electronics industry down to the smallest detail. Thousands of satisfied and loyal customers worldwide trust the Memmert promise of quality and innovation.

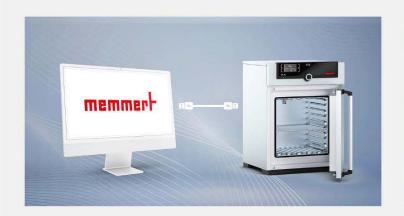## EXCLUSIVE ATMOWEB CAPABILITIES

With the AtmoWEB solution we offer a perfect and easy technology for remote-access and -control of our products within your business:

• AtmoWEB is a REST interface with JSON format which allows to monitor and control Memmert products remotely and therefore from any another place.
• AtmoWEBs remote capabilities are suited and supporting the "automation trends" within the laboratories and the industry, e.g. communication between different systems.
• All processes / applications that are depended on monitoring and change of values (temp, humidity, fan speeds, etc.) can be executed.
• Our customers are able to create and individualize their applications in the way they need it to automate procedures.
• Easy programming – no special skills necessary.
• AtmoWEB is automatically included in all Memmerts products – free of charge!

## TECHNOLOGY

AtmoWeb is a REST interface with JSON format to exchange data

• JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

• REST (Representational state transfer) is a software architectural style which uses a subset of HTTP. It is commonly used to create interactive applications that use web services. A web service that follows these guidelines is called RESTful. Such a web service must provide its web resources in a textual representation and allow them to be read and modified with a stateless protocol and a predefined set of operations. This approach allows interoperability between the computer systems on the Internet that provide these services. REST is an alternative to, for example, SOAP as way to access a Web service. REST has been employed throughout the software industry to create stateless, reliable Web-based applications.

## Information Input

With AtmoWEB you can read and monitor the following information from your Memmert device.

**Memmert Chamber**

- ■ **Set Target Value Parameter**
- ■ **Set Alert Values**
- ■ **Set Option Values (Switches, Door Open)**
- ■ **Start, Exit and Delete Programs**

## Information Output

With AtmoWEB you can send the following commands to your Memmert device:

- ■ **Target Value Parameter**
- ■ **Actual Parameter**
- ■ **Alert Values**
- ■ **Alert Ranges**
- ■ **Programm Information**
- ■ **Receive Option Values (Switches, Door Open)**
- ■ **Date and Time Information on device**
- ■ **General Device Information**
- ■ **Log of Device**

## HOW CAN YOU BENEFIT FROM ATMOWEB?

- ● Seamless Connectivity: AtmoWEB offers individual connectivity for remote monitoring and control.
- ● Inclusive Offering: Automatically included in all Memmert products at no extra cost for you.
- ● Versatility and Customization: Empowers you to customize applications and automate procedures.
- ● User-Friendly Design: Easy programming with no special skills required.
- ● Evolutionary Solution: Adapts to your evolving needs in laboratories and industries.

## CONTACT US

Do you have any questions about Memmert's connectivity solution AtmoWeb or would you like advice on how to best meet your individual requirements?

Contact your dedicated Memmert contact person or send an e-mail to **sales@memmert.com.**