



DEWETRON



PRECISION IS KEY

AUTOMATED CONFIGURATION, CONTROL AND DATA ANALYSIS WITH DEWETRON



YOUR MEASUREMENT SYSTEM DOESN'T CONTROL ITSELF OR DOES IT?



If you're still configuring things manually in your test and measurement operations, you're wasting time and money!
In modern test and measurement environments, manual interaction is often inefficient or even impossible. Harsh temperatures, strict safety regulations, or distributed test setups make direct access to instrumentation increasingly challenging. This is where consistent automation based on standardized protocols becomes essential. DEWETRON provides your ideal solution.



AUTOMATION INTERFACES

DEWETRON offers not only measurement hardware and software, but also a powerful ecosystem of automation interfaces.

- SCPI
- XCP
- DataStream
- EtherCAT
- Python libraries
- And many more

AUTOMATED MEASUREMENT CONFIGURATION

With the simple ASCII-based SCPI protocol you gain full remote control over your entire measurement system – quickly, flexibly, and reliably. Complex measurement tasks can be controlled remotely without direct physical access to the device.

KEY FEATURES AT A GLANCE:

- > Using the OXYGEN measurement software, you can fully configure your system via script. This includes everything from setting up channel properties such as sample rates, measurement modes, and filters, to creating and customizing measurement screens and defining headers and even more.
- > Setting up measurements is straightforward and efficient. In addition to configuring hardware channels, software channels can also be easily set up, including formulas for advanced signal processing. At the same time, loading and saving complete device setups can be automated, which significantly improves the reproducibility of your tests.
- > Sensor-specific functions such as zeroing, bridge balancing, or shunt calibration can also be controlled remotely, allowing precise adjustments even during operation.
- > In addition, you can continuously monitor the system status and retrieve diagnostic information or error messages at any time to ensure data integrity and system reliability.
- > and much more

The result: Reduce setup time, minimize human error, and ensure consistent test conditions every time.

AUTOMATED DATA HANDLING & ANALYSIS

DEWETRON enables end-to-end automation from data acquisition to analysis, both in real time and post-processing.

DATA HANDLING

Automatically export your data in the format you need after your measurement, or stream your data to your analysis pipeline during the measurement.

AVAILABLE TRANSMISSION OPTIONS:

- > SCPI (low-speed-communication)
- > DataStream (high-speed streaming up to 2 MS/s)
- > CAN
- > and more

Specialized protocols are available for seamless integration into existing test bench architectures:

- > XCP: Ideal for synchronization with control units. It enables starting/stopping as well as “arming” predefined triggers at a transmission rate of up to 2 MHz.
- > EtherCAT: With transmission rates of up to 1 kHz, it serves as a reliable interface for continuous recording control, and data transmission in industrial environments.

DATA ANALYSIS

Automate your analysis workflows directly within our OXYGEN measurement software or integrate them into external environments.

FURTHER POSSIBILITIES:

- > Once the measurement is complete, automatic export options ensure that the data is immediately available in the desired target format.
- > SCPI-based commands for fast, in-software analysis and display
- > Integration with external tools via DMDReader (e.g., Python, C/C++, FlexPro, and more)

This allows you to create a seamless data flow into your existing toolchain and benefit from faster insights, consistent analysis, and fully automated reporting processes.

AUTOMATED RECORDING CONTROL

Control even complex measurement tasks remotely without physical access to the device. From simple recordings to advanced triggered measurements, DEWETRON enables fully automated workflows.

YOUR BENEFITS:

- > Simple SCPI-based control commands for recording
- > Flexible remote trigger configuration for triggered measurements

Run tests autonomously, increase efficiency, and focus on results instead of operation.



OXYGEN – THE HEART OF EVERY MEASUREMENT

Powerful hardware requires equally powerful software.
That is why every DEWETRON system is powered by our proprietary **OXYGEN** measurement software.

LICENSE-FREE
for Analysis and
Post-Processing



CONCLUSION

The automation of test equipment transforms the measuring instrument from a passive data logger into an active, integrated component of test automation. This reduces human error, saves time during configuration, and enables measurements in environments that are otherwise inaccessible to the operator.

With DEWETRON, you don't just automate your measurement processes – you make your tests more efficient, reproducible, and future-proof.

With DEWETRON, you don't just measure – you accelerate innovation.

ABOUT DEWETRON

DEWETRON is a manufacturer of precision test and measurement systems and part of the globally operating Anritsu Group.

More than 35 years of experience and innovation have made DEWETRON a trusted partner in the global test and measurement market.

DEWETRON's quality is certified according to ISO 9001 and ISO 14001. The high integrity of the measurement data is guaranteed by our own accredited calibration lab according to ISO 17025.



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THE MEASURABLE DIFFERENCE.