



## Corona Pandemic: Crisis, Challenge and Opportunities for CETA Testsysteme GmbH



Dear readers,

Unusual circumstances call for appropriate measures. In this newsletter, we would like to inform you about the way we reacted and adapted to the corona pandemic and its impact on our line of business. Stay healthy!

Yours, Günter Groß  
Managing Director

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### CETA Digital – Every crisis also opens up opportunities

The Corona crisis did not leave CETA untouched. Trade fairs in which CETA had regularly taken part for more than 20 years, such as Control 2020 and Motek 2020, were postponed until 2021. Events featuring a contribution by CETA were cancelled or postponed.

Instead, a few congresses and workshops are now available as online events and CETA will take part in some of them.

Many appointments with customers had to be cancelled due to travel restrictions. Whenever possible, we implemented video conferences or used remote access to control CETA test devices. Whenever maintenance and calibration deadlines could not be postponed, the customers sent the test devices to us. For this purpose, CETA has made the necessary resources available. To reduce the risk of contamination, the number of

employees working together in the same office was reduced and some activities were shifted to mobile office. Mobile office work places were connected by VPN and Microsoft-Exchange. A lot is already possible online: remote access to CETA test devices, online provision of firmware updates, exchange and evaluation of measurement series, modification of device parameters, joint work on documents and data by document sharing.

Through these measures, we could ensure that our colleagues with remote access were fit to work at all times and that CETA always remained reachable and capable of acting. Further development of these online activities is planned under the project designation „CETA Digital“.

### CETA Corona Immediate Assistance Plan for manufacturers of medical products Free provision of leak and flow testers

The Corona pandemic is a serious challenge for the health care system and the provision of medical devices and protective equipment.

The manufacturers of medical products are faced with production bottlenecks and with the challenge of having to equip rework stations or set up additional test stations – at a time when the usual supply chains are rather unreliable. With this in mind, CETA Testsysteme GmbH initiated in April 2020 a Corona Immediate Assistance Plan and decided to put the available stock of demonstration leak and flow testers at the disposal of manufacturers of medical products – short-term and free of charge.

The test devices are provided for an initial period of three months – according to availability and technical suitability.



## CETA Corona Immediate Assistance Plan – Continued

The companies placing the demand are not subject to any obligations. The only condition is that the test devices should be used for the production of medical devices relevant for the fight against the corona virus SARS-CoV-2.

### Possible use and range of applications:

- Valve opening and closing points
- Measurement of volume flow (filter elements, valves, pipes, lines, pipettes, membrane elements)
- Leak test of products that can be filled directly (containers, shut-off valves, hose connectors, plug-in connectors)
- Leak test of encapsulated products (sensors, electronical control devices)
- Pneumatic function test and activation

### Further information about the action:

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## Folding@home - CETA joins in



Folding@home is a project that dates back over 20 years, using „distributed computing“ to collect molecular biological calculations from private PCs. In connection with this project, tests are currently performed to understand how the coronavirus functions and how to eliminate it. Over 2.7 million users are currently taking part, divided into more than 250.000 teams. A point system awards points for each work unit performed, depending on the computer performance, the resources made available and the processing time. The time spent

on a work unit can range between 2 and 17 hours and it is possible to earn between 500 and 100.000 points. CETA has joined in this project as a team since the beginning of April, the team ID is 256979 („CETA\_Testsysteme\_GERMANY“). CETA has earned more than 20 million points and processed over 1800 work units. This brings CETA among the TOP 7.500 (TOP

3.0 % of all teams) of a total of over 254.000 teams (mid-August 2020). An updated certificate will be issued to the honour of the team performance.



## CETA Practical Tip: Deduction of leak rate from laboratory correlation tests

In order to integrate leak testing in the production process, it is necessary to determine the test pressure and the leak rate. It is quite common to take as a basis the usual industrial guide values for the permissible leak rate of a product.

To be on the safe side, it is better to determine the leak rate by laboratory tests. Otherwise, the leak test could be too rigorous, resulting in a high rejection rate.

The following procedure has proven effective for this purpose: test parts of variable quality are tested for leaks by a suitable method. Hereby, it is important to check all error patterns occurring during production. This procedure is followed by a laboratory test in accordance with the conditions for the

required IP protection class. This test is generally destructive, since it is necessary to prove the penetration of moisture. Under certain conditions, it is also possible to perform a function test in order to check the function and prove the impairment of the function due to leakage.

The final decision on the tolerable leak rate is then based on a correlation of the leak test and this independent test.

This method might be more complicated than the orientation on the usual leak rates, but it has the advantage, and the security, of determining and defining a suitable correct leak rate for a given product.

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