Motek CETA® Newsletter

Dear readers,

Our 14th newsletter is issued on the occasion of our presence at the MOTEK 2009 trade fair. We will be at exhibition stand 5013 in hall 5 and will show some interesting applications. In addition, we will present our newly developed solution for traceability of measured values in leak and flow tests by connecting a barcode scanner to the CETATEST 815 device (further information in this newsletter). Our practical tip will deal with contaminated test parts and external venting.

Wishing you a pleasant reading,

Günter Groß
Managing Director

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CETA – Inside Information

Reliable business partners on whom you can depend on a long-term basis are particularly important in times of tense economic situation. CETA Testsysteme GmbH is an owner-managed German company which has established itself as quality leader on the market for leak detectors during its more than 20 years of existence. Our test devices „made in Germany“ have gained the recognition and approval of famous industrial companies. All over the world, more than 2.500 test devices developed and produced by CETA are being used. We accompany our customers through their projects with an unequalled service package (among other things, feasibility test prior to submitting an offer). In 2004, we were the first manufacturers of leak detectors to obtain DKD-accreditation of our calibration lab for measurand pressure (DKD-K-36001).
Our leak detectors are delivered without extra charge with DKD calibration: An additional bonus which will benefit you for securing production quality! Next to technical competence, economic stability is also an important factor which is accounted for by our very good creditworthiness granted by the business information company Creditreform. This makes us an economically stable and eminently reliable business partner.

CETA service packages help customers save money

Contracting works, hire-purchase, practical tests and comparative measurements

Since the beginning of 2009, our test devices have also been available by hire-purchase. This investment over a longer time period is meant to relieve your budget. You can also engage our services for testing small series, specimens or prototypes, for example. For you, this means that you won't need your own testing installation, will avoid tedious investment decisions and will not be dependent on delivery times – and you will get from us a professional test report. In this way, you can cut costs without cutting back on quality. Look and see for yourself the high reliability of our products and put our devices to the test at no charge for yourself. We are not afraid of comparisons: What is more convincing than the validation of test equipment suitability on the basis of a measuring equipment ability evaluation with impartial result, when the choice of process-sure technology is at stake? In so doing, you ensure a solid basis for your investment decisions.

EMC tests and safety tests of the CETATEST x15 und x17 series

Our customers have occasionally asked us about EMC conformity of our test devices. For reference, we would like to inform you that of course, all devices of the new series CETATEST x15 and the identical series x17 have passed all EMC and safety tests at the first try. In the course of extensive tests, independent

+ + + + + CETA newsletter no. 14 of 21.09.2009 + + + + +

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institutes have checked among other things radio interferences, immunity to interference by high-frequency electromagnetic fields, surge voltage and voltage drops. The tests were performed according to the norms EN 61010-1:2002, EN 55011:2007 und A2:2007, group 1 class A, EN 61000-3-2:2006, EN 61000-3-3:1995 and A1:2001 and A2:2005 and EN 61326-1:2006 including EN 61000-4-2:1995 and A1:1998 + A2:2002, EN 61000:4-3:2006, EN 61000-4-4:2004, EN 61000-4-5:2006, EN 61000-4-6:2007 and EN 61000-4-11:2004. This means that our CETA test devices neither produce any interference in the customers' installations nor do they show any susceptibility to interference from external factors. With this, there is no obstacle to the safe integration of CETA test devices in the production line.

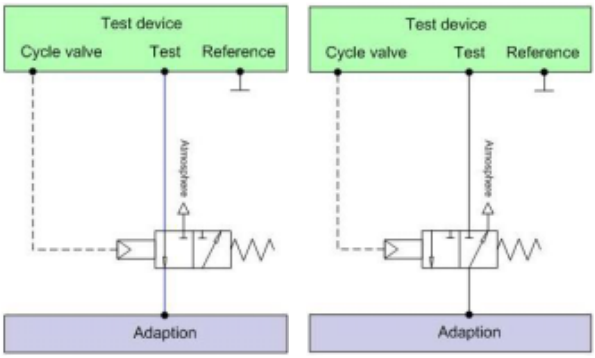
Traceability of measured values in leak and flow tests

The documentation of test results is used for appraisal and regular verification of measure-

ment equipment ability in the production process and is very often required. In addition, distinct traceability of measured data in connection with the serial number of the tested part, is increasingly gaining in importance. The traceability solution developed by CETA Testsysteme GmbH is available as additional option and can be fitted on the new leak detectors and flow testers of the x15 and x17 series. A barcode scanner connected to a USB-interface of the test device is used to read the serial number. The test result of the leak or flow test will be assigned to the serial number. The data can also be transmitted via the built-in Ethernet interface to the customer network for further analysis. A typical data set will for example consist of serial number, test date, test time and test result. This allows a high degree of traceability. The results of a complete test cycle can be recorded at a sampling rate of 25 ms.
Program selection according to batch, item or serial number, as well as automatic start of the leak / flow test are also possible. This permits a high degree of process reliability, in particular for automatic manufacturing processes with constant change of test parts for quality tests („chaotic production processes"). Capture and conversion of RFID tags are equally possible with CETA test devices.

CETA practical tip: Contaminated test parts and external dumping

It is not always possible to avoid contamination of test parts during production. If dumping is performed by the test device, dirt particles might get into it. This could affect the good functioning of the device. In these cases, an external dumping system can be used. For this purpose, we use a leak-tight 3/2-way valve fitted in the pneumatic test line between test device and test part adaption. The 3/2-way valve controlled by pneumatics can be switched by a cycle valve, which can be integrated as an option in the CETATEST device series, or by a valve cluster. During the test operation, a direct connection between test device and test part is created. The dumping phase is set to 0 seconds on the test device, and the valve is de-energized at the end of the cycle. The test part is dumped through the valve. This protects the test device and ensures a trouble-free operation.



Left: Filling and test phase of the test part.
Right: External dumping of the test part.

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