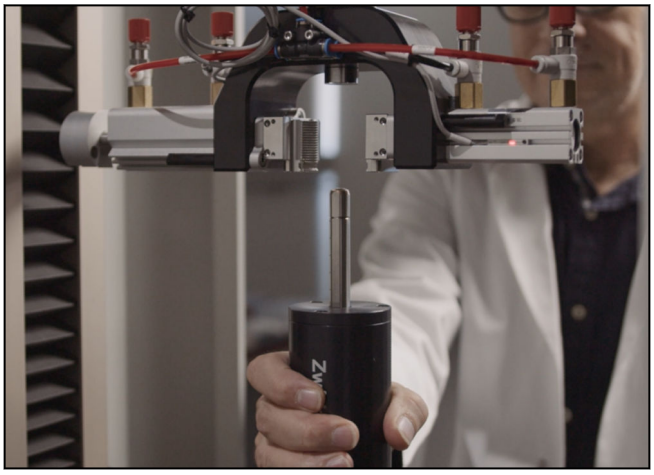
Product Information

Daily Check – Reliable Test Results Achieved through Regular, Systematic Verification of Sensors

CTA: 282414 323988



Applications

Particularly in industries that are strictly regulated, it is extremely important that all test results are traceable, reproducible, and tamper-proof. Reliable test results are also important for validation, audit trail capability, and data integrity. This requires a reliable testing system with appropriate software that can be systematically checked before each use with as little effort as possible and using methods that are extremely reliable.

ZwickRoell offers simple and reliable Daily Check versions for all sensors used for testing autoinjectors as well as components and parts in the pharmaceutical industry. If the Daily Check results are not met, testXpert informs the user with a distinctive message and the test sequence is not started. Of course, any Daily Check test can be performed in accordance with FDA CFR Part 11. Furthermore, ZwickRoell offers a special service for qualification of all ZwickRoell testing systems - whether standardized or customized.

Daily Check for load cell

The device is used for regular verification of load cells up to 500 N using comparison values (reference curve). Detection of systematic errors in the compression and tensile direction in the load cell is enabled, which ensures additional safety and reliability.

Daily Check for laser sensors

The laser sensors used to measure the injection depth and liquid presence are checked and verified using an injector-specific measuring pen fitted with different pen needles. Standardized Daily Check devices are available for the following autoinjectors: Ypsomate 1.0, Ypsomate 2.25, SHL Molly 1.0, SHL Molly2 1.0 and 2.25 and SHL DHL. The Daily Checks can be customized for all other injector types. The test result is displayed clearly in the report.

Daily Check for scale

The Daily Check for scale consists of two test weights (10 g and 200 g, OIML class: E2) including the corresponding DAkks calibration certificates. Two test loads are pertinent for regular verification; one in the lower load range of the scale with a 10 g test weight and the other in the range of the nominal maximum load of 200 g.

Daily Check for microphone

The Daily Check for microphone used for click detection in autoinjectors and portable injectors (OBDS) is performed by a mobile system with two measurement sound pressure levels, which are switchable. The testing software recognizes the test sound levels and clearly displays them clearly.

Daily Check for vision sensor

The Daily Check is used for verification of the sensor, which is used to detect edges and geometric features as well as colors at any desired location on the autoinjector, in order to verify that the correct injector (in the correct position) has been inserted into the testing system. If the result of the detection differs, testXpert informs the user with a distinctive message.

Daily Check for camera (VDX)

The systematic verification for the camera-based injection depth and injection time measurement is performed using scaling targets (10 mm and 25 mm). They can also be used for the calibration of the camera-based

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measuring system. There is also a unique Daily Check for the injection time, which can be performed easily and reliably using a highly accurate measuring pen.

Advantages and features

- Reliable and traceable test results. Easily performed before each test run and additional assurance/safety between calibration intervals.
- Easy, safe verification of the sensor, for example, including trend, warning and access limits
- With daily checks performed on the sensors, you avoid test errors and, in turn, costly follow-up testing.
- The guided test process ensures correct testing without operator influence.
- The result (e.g., OK/not OK) of the sensor verification can be displayed on the test report and the test series of the customer specimen.
- The result is saved in the traceability option.
- Two reference standards (master/slave) ensure reliable daily check results for load cells.

Item No.	Item description for AllroundLine
1075978	Daily Check for load cell, incl. swivel arm bracket
1076614	Daily Check for injection depth and fluid detection (laser) for YpsoMate 1.0
1076615	Daily Check for injection depth and fluid detection (laser) for YpsoMate 2.25
1075979	Daily Check for injection depth and fluid detection (laser) for SHL Molly 1.0
1113099	Daily Check for injection depth and fluid measurement (laser) for SHL Molly 2 1.0
1113100	Daily Check for injection depth and fluid measurement (laser) for SHL Molly 2 2.25
1076613	Daily Check for injection depth and fluid measurement (laser) for SHL DAI
1075980	Daily Check for scale
1075981	Daily Check for microphone (sound level source) incl. test program and ISO certificate
1113179	Daily Check For for vision sensor
1115822	Daily Check standard test program for optical injection measuring system (VDX)[1)]
1111349	Daily Check for injection time via laser sensors YpsoMate 1.0
1115981	Daily Check for injection time via laser sensors YpsoMate 2.25
1115983	Daily Check for injection time via laser sensors SHL DAI
1115984	Daily Check for injection time via laser sensors SHL Molly 1.0
1115985	Daily Check for injection time via laser sensors SHL Molly-2 1.0
1115986	Daily Check for injection time via laser sensors SHL Molly-2 2.25

1) The scaling targets (10 mm and 25 mm) for performing the Daily Check test are included in scope of delivery for the optional Item No. 1101425 Optical injection depth and injection time measurement (VDX).

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Item No.	Item designation for zwickiLine
1104711	Daily Check for load cell with mounting support in autoinjector sensor plate
1104712	Daily Check for injection depth and fluid detection for YpsoMate 1.0
1104713	Daily Check for injection depth and fluid detection for YpsoMate 2.25
1104742	Daily Check for injection depth and fluid detection for Molly 1.0
1113089	Daily Check for injection depth and fluid detection for Molly 2 1.0
1113090	Daily Check for injection depth and fluid detection for Molly 2 2.25
1111348	Daily Check for injection time via laser sensors YpsoMate 1.0 (as of testXpert V1.9.1)
1117519	Daily Check for injection time via laser sensors YpsoMate 2.25 (as of testXpert V1.9.1)
1117520	Daily Check for injection time via laser sensors SHL Molly 1.0 (as of testXpert V1.9.1)
1117521	Daily Check for injection time via laser sensors SHL Molly 2 1.0 (as of testXpert V1.9.1)
1117522	Daily Check for injection time via laser sensors SHL Molly 2 2.25 (as of testXpert V1.9.1)
1104714	Daily Check for scale