

## Product Information

### Electronics and testXpert® II - Software for Creep Testing

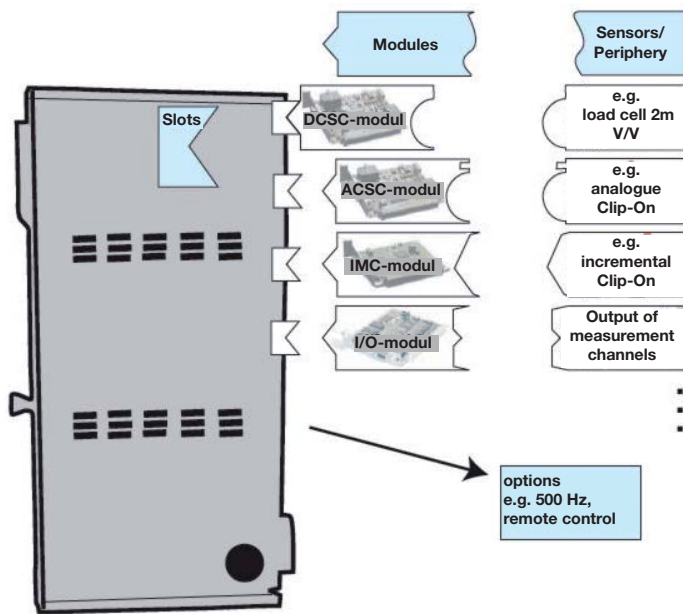


figure 1: testControl, modularity



figure 2: testControl

## ZwickRoell-electronics testControl

### System of easy handling

- Operation with Standard-PC/laptop and testXpert®-Software for high ease of use, Analysis and Statistics.
- Automatic recognition of sensors and intelligent help at all situations of danger and errors.

### System of modern technics

- Highest machine availability through the use of maintenance free AC servo drives with direct power supply and real-time operating system
- Precise positioning by 500 Hz controller frequency and high resolution crosshead resolver

### System of Modularity

- Modular versatile concept of mechanics, sensors, software and electronics for specific configurations
- Core system with 2 module slots, one equipped with a DCSC-module for connection of a load cell
- expandable with options and modules
- 2 additional module slots in Standard-electronics available
- Modules for all types of sensors available e. g. analog, digital sensors
- Module for digital and analog In- and Output e.g. used for Software independent output of sensor data

### System for the future

- High investment security through individual configuration possibilities
- Compatibility concept for continuous component expansion
- Continuous development of the „system test machine“
- ISO 9000 and CE conformity

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### testXpert® II - Software for Creep Testing

#### Software testXpert - test configuration

- Strain controlled and load controlled tests available
- Creep stress rupture, Creep rupture, Relaxation and more tests possible
- Definition of tests with test blocks possible (stepless because no use of dead weights)
- Change of controller mode (strain or load) in between test blocks possible
- Simple use at performance of tests and use with assessment of test results
- Simultaneous display of Online data of all channels as data and graphics
- Simple definition of test programs incl. specimen and machine security, controlling of temperatures, triggering of external events e.g. acoustic signals

#### testXpert - Interface to HT-controller

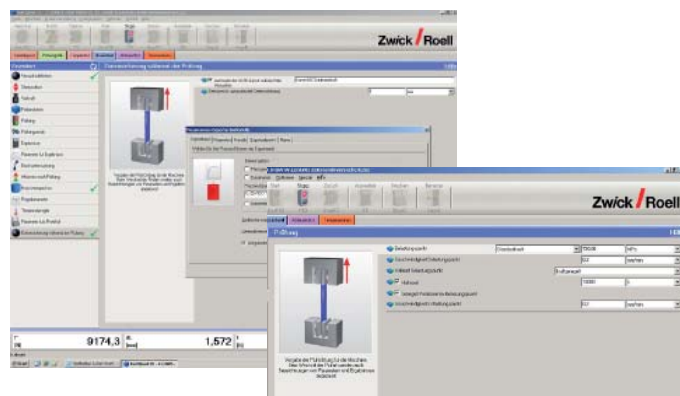
Integrated Interface to HT-controller

- Set up of Temperature-targets and -ramps
- Display of Actual - Temperatures of specimen (3x) and heating zones (3x)
- Display of temperature graph



#### testXpert - concept for data security

- Sophisticated concept for data security
- Special version for creep tests incl. criteria for multilevel data storage e.g. higher storage rate in initial and end phase of test, lower storage rate in middle phase
- Storage during the test on PC and any external data bases
- testXpert data Option Export - For further data analysis there is a wide range of export/facilities in other programs, data bases and laboratory management systems available
- Analog SW-independent output



#### Available testXpert test programs:

- STP Creep, Creep rupture test for metals acc. to ISO 204, ASTM E 139
- MTP Creep, Creep rupture test for metals acc. to ISO 204, ASTM E 139 (incl. stress relaxation test acc. to EN 10319 ASTM E 328)
- MTP Creep, Creep rupture test for metals incl. load and temperature blocks
- MTP CCG Creep Crack Growth for metals acc. to ASTM E 1457
- MTP Creep test for plastics acc. to EN ISO 899
- MTP FNCT Full notch creep for plastics acc. to ISO 16770 incl. tensile and flexure tests
- MTP Tension Creep on Geosynthetics acc. to ASTM D 5262 and ASTM D 6992

STP = Standard Test Program (fixed to Standard)

MTP = Master Test Program (flexible around Standard)