



Application Software
CETA Soft 2G for free!

Leak tester CETATEST 815 HP-PR - testing with high pressure

The CETATEST 815 HP-PR in the variant high pressure can be used for leak tests (e.g. injection valves) up to a test pressure of 400 bar using the test mode pressure rise. Hereby the primary circuit is pressurised with the test pressure (up to 400 bar). The leakage test is performed in the secondary circuit.

Operating methods

Two channel operation optional

Signal processing

Fast 24-bit-A/D-Converter
Real-time processing of the measurement signals

Valve type

Poppet valve (primary circuit), sliding valve (secondary circuit)

Sequence controller

Microcontroller system

Pressure sensors

Piezo-resistive differential pressure transducer (in secondary circuit), Piezo-resistive gauge pressure sensor (in primary and secondary circuit)

Measurement range

Differential pressure sensor:
 $\pm 500 \text{ Pa} / \pm 5.000 \text{ Pa}$
(displayed resolution: 1 Pa,
internal resolution: effective 0.01 Pa)
other ranges on request

Result units

Pa, hPa, PSI, Pa/s, hPa/s, mbar*l/s,
ml/min, ml/h, l/min, l/h, mmHg, mmWs, Torr

Pressure ranges

Primary pressure: to 400 bar
Secondary pressure: to 150 mbar,
other pressure ranges on request

Test modes

Pressure rise

Control systems

Still-Alive-Check with control of the differential pressure sensor, overflow valves, consecutive zero results

Programmable test parameter

Primary- and secondary pressure circuit:
target pressures, pressure limit value,
delay time, fill time, stabilization time,
measurement time, dp-limit value, exhaust
time, reject level, rework level

Test mode specific limits

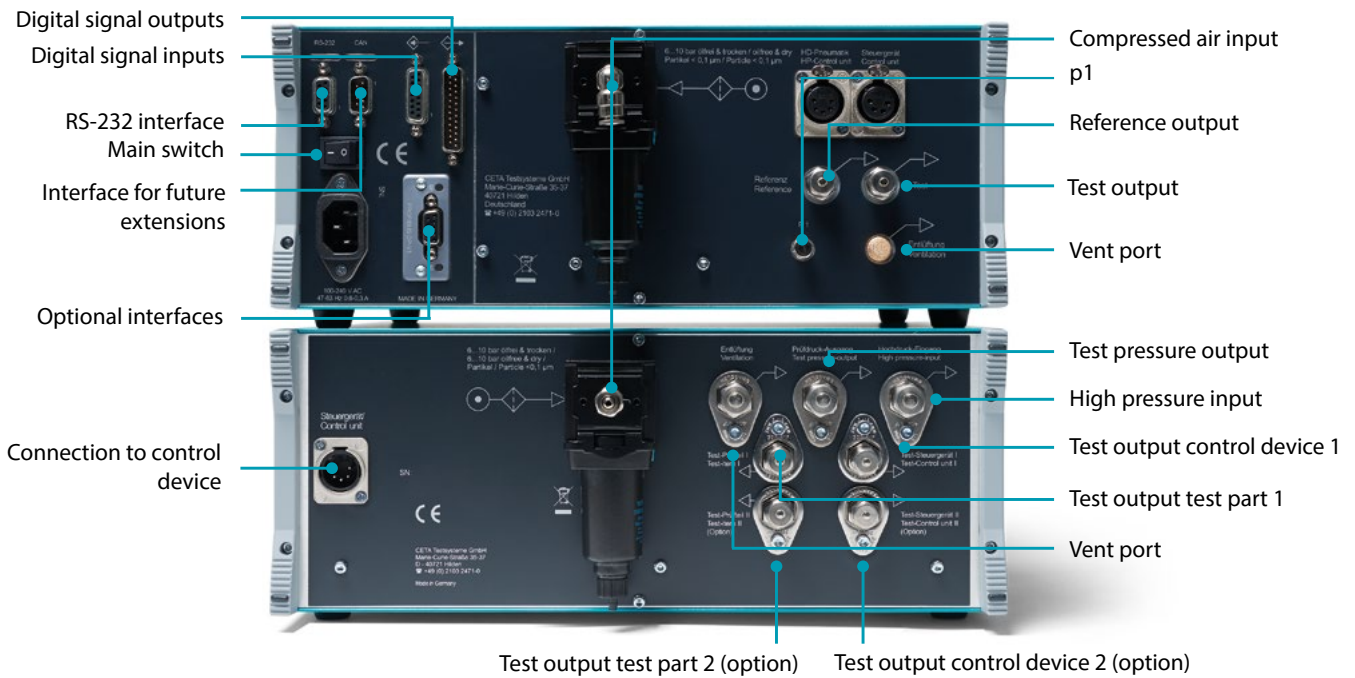
Prefill pressure, filling pressure, test mode
specific reject and rework levels

Handling

Intuitive menu including password
protected user levels

Parameter memory

64 individual parameter driven test
programs with alpha-numeric program
names, parameters of the test programs
can be exported resp. imported via the
test device interfaces or by usage of a USB
storage device.



Interfaces

Function	Start / Stop / Reset	Programm selection	Device status / system fault	Evaluation (Pass / Fail)	Parameterization	Measurement results	Detailed fault messages
Digital I/O (standard)	■	■	■	■			
RS-232 (standard)	■	■	■	■	■	■	■
Profibus DP (option)	■	■	■	■	■	■	■
Profinet (option)	■	■	■	■	■	■	■
Ethernet (option)	■	■	■	■	■	■	■
EtherCAT (option)	■	■	■	■	■	■	■

Further interfaces on request.

Further functions

Result statistics, indicator for service intervals, registration of parameter change, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming

Power supply and power consumption

100 – 240 V AC, 47 – 63 Hz, 0.6 – 0.3 A, depending on stage of expansion, max. 60 W (for each CETATEST 815)

Compressed air supply

6 - 10 bar and 0.5 bar above test pressure (ISO 8573-1:2010 [1:4:1]), High pressure input up to 400 bar

Pneumatic connection

Input (compressed air supply):
6 mm plug-in fitting ,
primary circuit: 6 mm clamping ring
secondary circuit: 3 mm clamping ring

Dimensions and weight

W x H x D:
345 mm x 145 mm (3 RU) x 435 mm
Weight approx. 23 kg (for one channel version), approx. 33 kg (for two channel version)

Included in delivery

Special packaging, power cord, documentation and PC-software on CD, calibration certificate, declaration of conformity, D-Sub-plug including cable for inputs and outputs (PLC-communication), spare sealing caps and spare caps for union nuts coupling or spare clamp rings

DAkkS calibration and DAkkS certificate

All new CETATEST 815 HP-PR devices will be delivered free of charge with DAkkS calibration certificate.

Warranty

3 years in case of yearly maintenance, optional prolongation to 5 years

Accessories (optional)

Filter combination, standard leak, leak tight 3/2-way valve, RS-232 / Ethernet adapter, application software CETA Soft 2G, more in the CETA accessories catalogue.