



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

Pressure ranges

Primary pressure: 100 bar (MPR), 400 bar (MPR),
Secondary pressure: 150 mbar (MPR),
200 mbar (EPR), other pressure ranges on request
MPR = Mechanical pressure regulator
EPR = Electronical pressure regulator

Maximum Deviations

Primary pressure **: 0.5 % *
Secondary pressure: 1.0 % *
Differential pressure: 0.5 %
referred to measuring range

Test modes

Pressure rise

Test mode specific limits

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

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, stabilisation time, measurement time, dp-limit value, exhaust time, reject level, rework level

Test mode specific limits

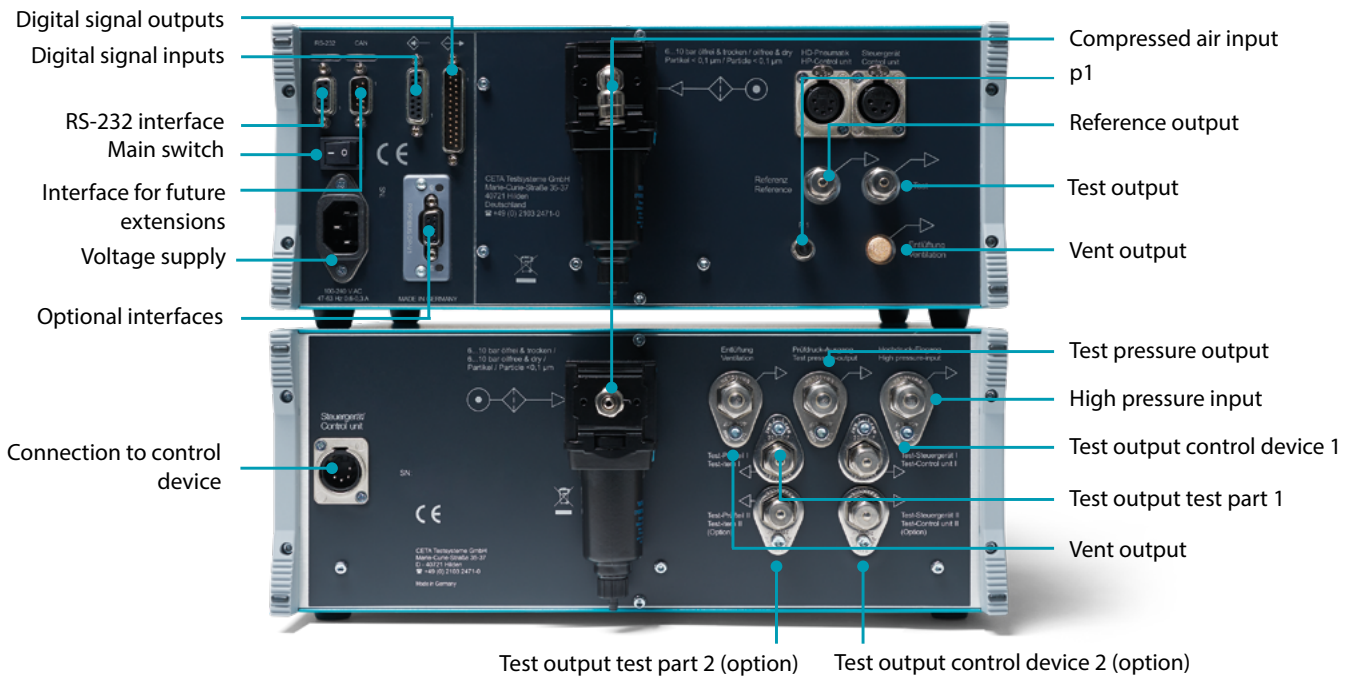
Prefill pressure, filling pressure, test mode specific reject and rework levels

Handling

Intuitive menu including password protected user levels

Parameter memory

64 individually parameterisable 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		Start / Stop / Reset	Program selection	Device status / system error	Evaluation (Pass / Fail)	Parameterisation	Measurement results	Measurement curve	Phase information in real time	Error messages
Standard	Digitale I/O	■	■	■	■					
	RS-232	■	■	■	■	■	■	■	■	■
	USB Host (Front)				■	■	■	■		
Option (one selectable)	Profibus DP	■	■	■	■	■	■	■	■	■
	Profinet	■	■	■	■	■	■	■	■	■
	Ethernet	■	■	■	■	■	■	■	■	■
	EtherCAT	■	■	■	■	■	■	■	■	■

Further interfaces (e.g. Bluetooth, WiFi & USB Slave) on request. The optional RS-232 protocol converter enables the exchange of a CETATEST 810 HP PR that communicates via RS-232, against a CETATEST 815 HP PR.

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 VAC / 47 – 63 Hz / 0.6 – 0.3 A depending on stage of expansion, max. 60 W (for each CETATEST 815) UL certified power supply unit

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 450 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 U) x 435 mm Weight approx. 23 kg (for one channel version), approx. 33 kg (for two channel version)

Scope of delivery

Special packaging, integrated power supply with UL certification, power cord, documentation on CD, calibration certificate, EU declaration of conformity, spare sealing caps and spare caps for union nuts coupling or spare clamp rings

DAkKS-accredited calibration

All new CETATEST 815 HP PR devices up to 60 bar pressure range will be delivered free of charge with a DAkKS-accredited calibration certificate according to DIN EN ISO/IEC 17025. For operating pressures above 60 bar, accredited subcontracted calibration can be offered as an option. DAkKS = German Accreditation Body

Warranty

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

Accessories (optional)

Filter combination, standard leak, D-Sub connector incl. cable for inputs and outputs (PLC communication), application software CETASoft 2G, scanner interface, more in the CETA accessories catalogue.