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:
± 500 Pa / ± 5,000 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

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

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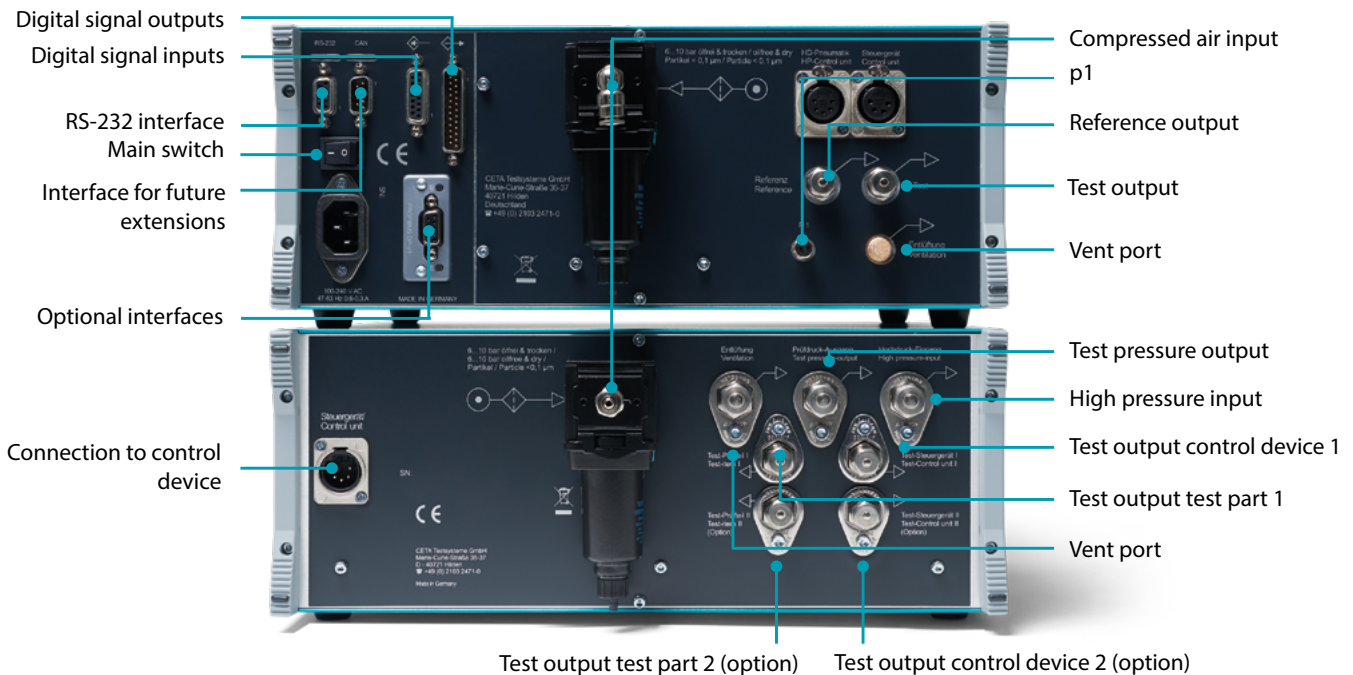
Test mode specific limits
Prefill pressure, filling pressure, test mode specific reject and rework levels

Handling
Intuitive menu including password protected user levels

Parameter memory
64 individually parameterizable 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.

* referred to full scale value   ** Display related to input current at sensor port

Digital signal outputs
Digital signal inputs
RS-232 interface
Main switch
Interface for future extensions
Optional interfaces
Connection to control device

Compressed air input p1
Reference output
Test output
Vent port
Test pressure output
High pressure input
Test output control device 1
Test output test part 1
Vent port

Test output test part 2 (option)   Test output control device 2 (option)

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

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, power cord, documentation and PC-software on CD, DAkkS calibration certificate, EU 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 calibration certificate

All new CETATEST 815 HP-PR devices up to 60 bar pressure range will be delivered free of charge with DAkkS calibration certificate according to DIN EN ISO/IEC 17025.

Warranty

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

Accessories (optional)

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