

Flow Tester CETATEST 915



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|--|--|---|-------------------|
| Operating principle | The flow tester CETATEST 915 is used to measure the flow using compressed air. The device contains a measurement system consisting of a laminar flow element (LFE) and a differential pressure sensor. In the direct test method the air, provided by the internal pressure regulator, flows through the measuring section before it enters the test part. In the indirect test method the measuring section is located behind the test part. Due to the special design of the measuring section a laminar flow is generated. The resulting pressure difference is directly proportional to the volume flow. | | |
| Signal processing | Fast 24-Bit-A/D-Converter | | |
| Sequence controller | Real time microcontroller system, 16-Bit μ C / 40 MHz | | |
| Sensors | Differential pressure sensor, relative pressure sensor (test pressure) | | |
| Measurement ranges of the laminar flow elements | Type of LFE | Flow at positive gage pressure of 50 mbar in the LFE | Test connections |
| | 1 RK | 50 - 2.000 ml/h | 8 x 1 mm fitting |
| | 1 RM | 140 - 6.100 ml/h | 8 x 1 mm fitting |
| | 1 RG | 11 - 450 ml/min | 8 x 1 mm fitting |
| | 5 RG | 110 - 4.700 ml/min | 8 x 1 mm fitting |
| | 8 RG | 125 - 5.400 ml/min | 8 x 1 mm fitting |
| | 20 RG | 230 - 9.900 ml/min | 8 x 1 mm fitting |
| | 30 RG | 24 - 990 l/h | 8 x 1 mm fitting |
| | 55 RG | 40 - 1.700 l/h | 10 x 1 mm fitting |
| | 80 RG | 1,0 - 44,0 l/min | 10 x 1 mm fitting |
| | 100 RG | 1,4 - 60,0 l/min | 10 x 1 mm fitting |
| | | other LFE on request | |
| Test pressure range | -1 bar, 150 mbar, 1 bar, 6 bar (other ranges on request) | | |
| Result units | ml/min, ml/h, l/min, l/h, mbar*l/s | | |
| Test phases | Delay, filling, stabilising, measuring | | |
| Test mode specific limits | Filling pressure Test mode specific reject and rework levels | | |
| Handling | Intuitive menus 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. | | |

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Further functions Detailed result statistics, cycle counter, indicator for service intervals, countdown indicator, recording of parameter change, recording of measurement curves and measurement series, Dynamic Link Library (DLL)

| Interfaces | Function | Digital I/O | RS-232 | Profibus DP | Ethernet |
|------------|------------------------------|-------------|------------|-------------|----------|
| | | (Standard) | (Standard) | (Option) | (Option) |
| | Start / Stop / Reset | X | X | X | X |
| | Program Choice | X | X | X | X |
| | Device Status / System fault | X | X | X | X |
| | Evaluation (Pass / Fail) | X | X | X | X |
| | Parameterization | | X | X | X |
| | Measurements Results | | X | X | X |
| | Detailed Fault Messages | | X | X | X |

Other interfaces on request

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

Compressed air supply 1.0 bar above test pressure

Pneumatic connections Input (compressed air supply): 6 mm plug-in fitting
Port for test part: depending on the LFE used
Three pneumatically controlled and individually adaptable outputs [option]

Dimensions Width: 345 mm, Height: 145 mm (3U), Depth: 435 mm

Weight Approximately 10 kg

Included in delivery Special packing, mains cable, documentation on CD, EC-Declaration of Conformity, calibration certificate, D-Sub-plug including cable for inputs and outputs (PLC-communication)

Accessories (optional) Filter combination, standard leak, leak tight 3/2-way-valve, further equipment in the CETA-accessories catalogue.

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