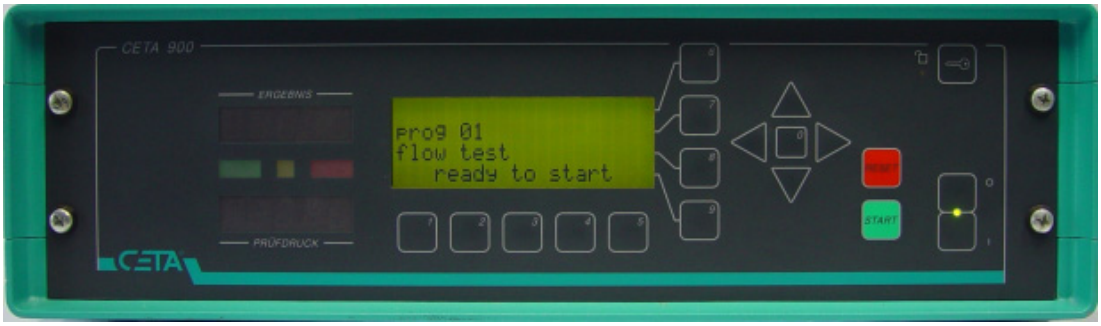
# Flow Tester CETA 900

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| **Operating principle** | The flow tester CETA 900 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. |
| **Sequence controller** | Multi-microcontroller system |
| **Flow sensor** | Laminar Flow Element with differential pressure transducer |
| **Test pressure sensor** | Piezo-resistive gage pressure sensor |
| **Measurement ranges of the laminar flow elements** | Type of LFE / Flow at positive gage pressure of **5 mbar** in the LFE / Connections |
| | 1 RK: 15 - 1.400 ml/h: 8 x 1 mm fitting |
| | 1 RM: 60 - 3.800 ml/h: 8 x 1 mm fitting |
| | 1 RG: 6 - 300 ml/min: 8 x 1 mm fitting |
| | 5 RG: 30 - 1.900 ml/min: 8 x 1 mm fitting |
| | 8 RG: 60 - 3.200 ml/min: 8 x 1 mm fitting |
| | 20 RG: 90 - 6.900 ml/min: 8 x 1 mm fitting |
| | 30 RG: 12 - 670 l/h: 8 x 1 mm fitting |
| | 55 RG: 20 - 1.150 l/h: 10 x 1 mm fitting |
| | 80 RG: 0,5 - 36 l/min: 10 x 1 mm fitting |
| | 100 RG: 0,7 - 42 l/min: 10 x 1 mm fitting |
| | 150 RG: 1 - 62 l/min: 10 x 1 mm fitting |
| **Accuracy** | Flow sensor : typically 5 % of full scale<br>Test pressure sensor : 1 % of full scale |
| **Result units** | ml/min, ml/h, l/h, l /min |
| **Test mode** | Direct or indirect measuring procedure |
| **Mechanically regulated test pressure ranges** | Negative gage pressure; 0,5...10 mbar; 10...140 mbar; 50...1000 mbar; 0,1...2 bar; 0,3...3,5 bar; 0,5...6 bar; other ranges on request |
| **Electronically regulated test pressure ranges** | On request |
| **Alphanumeric display** | LC-Display (4 x 20 Zeichen) |
| **Programmable test parameter** | Test pressure (available only with electronical pressure regulator), pressure limits, delay time, fill time, stabilization time, measurement time, exhaust time, flow too large, flow too low, program series (option) |
| **Functionality** | Simple, flexible menues with copy function |

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| **Dimensions** | Width: 530 mm, Height: 165 mm, Depth: 350 mm<br>19´´- housing with 3 RU |
| **Parameter memory** | 64 test programs |
| **Parameter storage** | Entered data remain stored without line voltage (up to 10 years). |
| **Access control** | By means of a four digit code number (can be deactivated) |
| **Pass and fail counter** | Per program |
| **Acknowledge-reset** | Switchable |
| **Evaluation** | Pass indicator (green), fault indicator (yellow), fail indicator (red) |
| **Interfaces** | |

| Input and Output | 8 digital I/O (Standard) | RS 232 (Standard) |
|---|---|---|
| Start / Stop / Reset | X | X |
| Program Choice | X | X |
| Device Status / System Fault | X | X |
| Evaluation (Pass / Fail) | X | X |
| Parameterisation | | X |
| Measurement Results | | X |
| Detailed Fault Messages | | X |

Option: Second plug-in board with 8 free programmable outputs

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| **Power supply and power consumption** | 90 - 260 V AC, 50/60 Hz, maximum 80 W |
| **Compressed air supply** | 1 bar above test pressure, but at least 5,5 bar (ISO 8573-1) |
| **Pneumatic connections (for polyamid tubes)** | Input : 6 x 1 mm slide-on receptacle<br>Output: fitting 8 x 1 mm, 10 x 1 mm depending on LFE type, other dimensions upon request |
| **Advice** | The use of fittings from Camozzi is recommended. |
| **Weight** | Approximately 13 kg |
| **Included in delivery** | Special packing, power cord, declaration of conformity(CE), user manual, calibration certificate |
| **Accessories (optional)** | Application software CETA Soft, filter combination, master jets, leakproof 3/2-way-valve, laminar flow elements, more in the CETA accessories catalogue |

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