

Calibration and Certification

Calibration certificate









18...26°C 30...60% rH 990...1050 mbar High speed Calibration by

References used:				
Туре	Model	Uncertainty	5/N	Last Calibration
Turbine Flow Meter	FT-32	± 0.50%	141119E39096	10.2021
Laminar Flow Elements	LFE0 LFE1	= 0.50% = 0.50%	1836000032 1802000011	10.2021 10.2021
Sonic Nozzels	NO-N4	= 0.50%	831K033-37	10,2021

Calibration test results:						
Description	Units	Nominal value	Permissible uncertainty	Actual value	Evaluation	
Flow	m3/h	142.2	±(1.5 % + 0.3% FS)	143.1	passed	
Flow	m3/h	285.4	±(1.5 % + 0.3% FS)	286.1	passed	
Flow	m3/h	611 2	+(1 E 86 + 0 286 EC)	611.7		

The above-mentioned calibration was performed according to SUTO ITEC working standards. Furthermore the calibration was performed by comparison with instruments, which have been calibrated at an ISO 17025 excredited calibration laboratory and is traceable to national standards. It represents the physical units according to the International System of units (SI). The reference measurement system used for this calibration has a total uncertainty of 0.65% (at confidence level: 55%)

We commend that this measuring instrument should be calibrated annually.

The product has been calibrated by:

SUTO ITEC GmbH

Calibration date:

















FLOW CALIBRATION



PARTICLE CALIBRATION



OIL VAPOR **CALIBRATION**



EXCHANGE CALIBRATION



DEW POINT CALIBRATION



PRESSURE **CALIBRATION**



TEMPERATURE CALIBRATION



Benefits

- SUTO owned high tech calibration facilities for Dew Point, Compressed Air Flow, Oil vapor, Pressure, Temperature in Germany, Hong Kong and China
- Flow calibration under pressure and a wide range for highest accuracy
- Real gas calibration system for technical gases
- SUTO Exchange Calibration Service to minimize downtimes
- References and certificates are traceable to national standards

Flow Calibration Service

- Accuracy: < 0.5% o. RDG
- Range: 0... 260 m/s (20°C 1000 mbar)
- Pressure: 0... 0.7 MPa
- Pipe sizes: DN8... DN100
- Medium: Compressed Air and technical Gasses
- References: Sonic Nozzles, Laminar Flow Elements, Turbine Meter, Coriolis Meter



Dew Point Calibration Service

- Accuracy Frost/Dew point: ≤ ± 0.1 °C
- Accuracy Temperature: ≤ ± 0.07 °C
- Calibration Range: -85... +15 °C Td
- Reference: MBW 373 Dew Point Hygrometer / Dew Point Mirror



Oli Vapor Calibration Service

- Accuracy: ≤ ± 3 % o. RDG
- Gas: Isobutylene in synthetic air
- Reference: Traceable and certified gas
- Range: 0.000... 10.000 mg/m³
- Multiple activated carbon filtration system for accurate zero-point calibration







Exchange Service

No Downtime anymore!

The exchange calibration service eliminates down time and enables users to have a seamless record of their dew point measurements.

The user receives in advance a calibrated instrument with calibration certificate and the same instrument settings. The onsite instrument is then switched against the calibrated one and returned to the supplier.

Ordering

Please use the following table to assist in placing your order with our sales staff.

Calibration and Certification					
Order No.	Description				
R200 0001	Flow calibration with certificate	Flow calibration with certificate			
R200 0005	Oil-& grease-free cleaning option for flow sensors (For Oxygen, it is already included in A1009.)				
R200 0020	Re-calibration, real gas: O ₂ , Ar, CO ₂ , H ₂ (H ₂ real gas calibration needs to consult with manufacturer in advance)				
R200 0021	Re-calibration, real gas: CH ₄ , NG, N ₂ O (please consult with manufacturer in advance)				
R200 0022	Real gas calibration for He				
R200 0030	Pressure sensor calibration 16bar(g) type, at 3 points				
R200 0040	Re-calibration ultrasonic flow meter S460				
R200 0050	Dew point calibration, one additional point, freely selectable in the range -75 +20 $^{\circ}$ C Td				
R200 0070	Calibration for S531				
R200 0080	Re-calibration per unit for S110 power meters or Rogowski coils				
R200 0120	General service and re-calibration: - General inspection of the unit - Replacement of tubes and fittings - Cleaning of lamp and sensor	- Assembly and test of unit - Calibration of oil sensor S120			
R200 0130	Calibration for particle counter \$130				
R200 0131	Calibration for particle counter S132				
R200 0600	S600 Service and calibration: - General inspection of the unit - Replacement of tubes and fittings - Cleaning of components	Cleaning of componentsAssembly and test of unitCalibration			
R200 0610	Isokinetic sampler service / flow calibration				
R699 3396	Dew point sensor calibration				
R200 4610	Calibration for S461 ultra sonic transducer pair				
R200 4613	Calibration for S461 temperature sensor				
R200 4620	Calibration for S462				



