

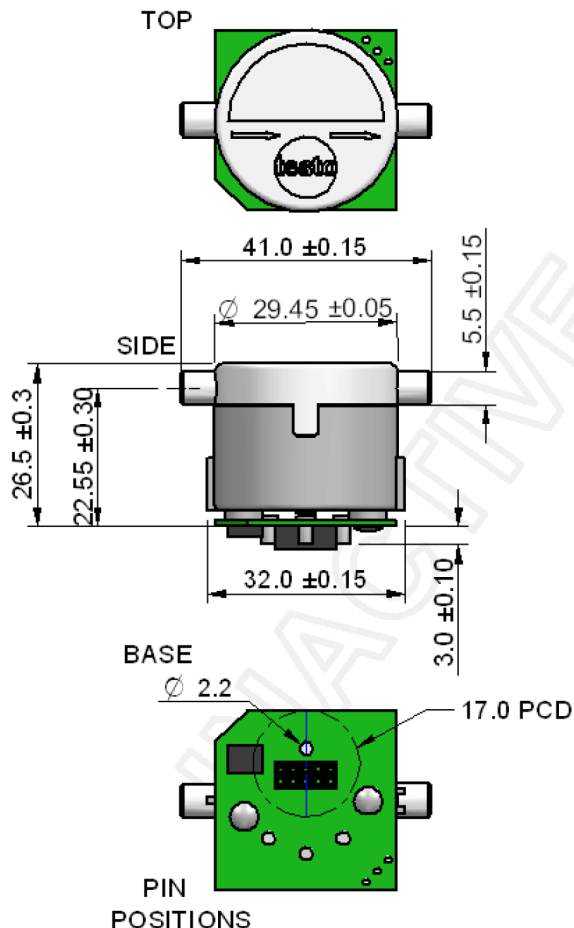
N.B. The specification is based on measurements made with cylinder gases using a flow rate of 500mls min⁻¹. Conditions at 20°C, 50 %RH, and 1013 mBar unless otherwise noted.

Performance Characteristics

Target Gas	Oxygen
Nominal Range	0 % to 25 %
Maximum Overload	30 %
Expected Operating Life	2 years in Air
Output Signal	0.30 mA ±0.04 mA in Air
Resolution	500 ppm
Temperature Range	-20°C to +50°C
Temperature Coefficient	0.2 % signal/°C
Pressure Range	Atmospheric ±10 %
Pressure Coefficient	0.02 % signal/mBar
T₉₅ Response Time	≤ 20 s
Relative Humidity Range	0 % to 99 % RH non-condensing
Baseline Range	<0.10 % O ₂ , 3 min N ₂
Long Term Output Drift	<2 % signal/month (<10 % signal/year)
Output Linearity	see linearity graph*
Pressure Transient	<70 % signal increase (@ 60 cm H ₂ O)
CO₂ Cross Sensitivity	0.3 % O ₂ increase per %CO ₂

* see linearity graph for sensor behaviour
Corrected signal ±0.25 % O₂ at 2.5 % O₂
Corrected signal ±0.25 % O₂ at 5 % O₂

Product Dimensions



Dimensions in mm.
All tolerances ±0,15 mm unless otherwise stated.

Physical Characteristics

Colour of top	White
Weight	38 g
Position Sensitivity	None
Storage Life	6 months in package
Recommended Storage Temperature	0°C to 20°C
Warranty Period	18 months from date of despatch

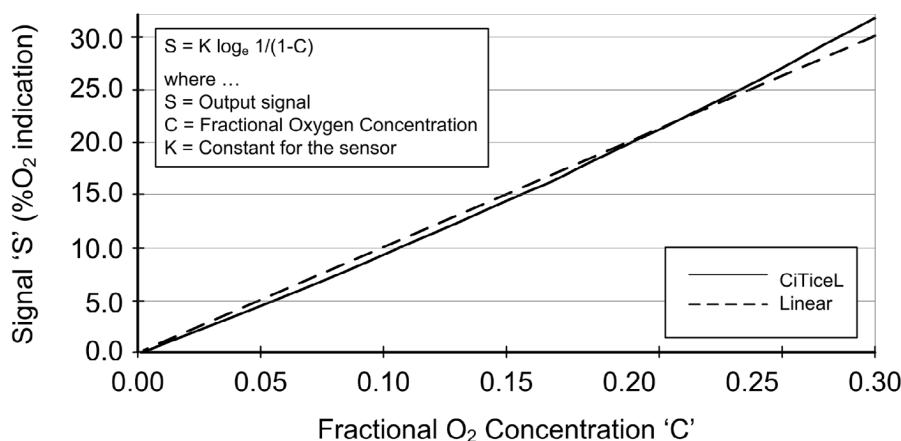
Failure Codes

Fehlercode Failure Code	Prüfschritt Test	Prüfgas Test Gas
TO2-A	Abgleich TO2 Calibrate TO2 300 $\pm$ 40 μ A	Luft Air
TO2-B	Nullpunktlinie TO2 Baseline TO2 (<0.15 % O ₂ after 3 min 0 % O ₂)	0% O ₂ ; 100 ppm CO; 150 ppm NO; bal N ₂
TO2-E	Steigungsprüfung TO2 Check O ₂ reading after correction is 2.5 % ($\pm$ 0.25 %)	700 ppm CO; 2.5 % O ₂ ; bal N ₂
TO2-F	Steigungsprüfung TO2 Check O ₂ reading after correction is 5 % ($\pm$ 0.25 %)	400 ppm CO; 300 ppm H ₂ ; 5 % O ₂
TO2-L	Leckage Leakage	-
TO2-M	Fehler an Eeprom Eeprom-Fault Fehlerhafte Steckverbindung Faulty connection	-
TO2-R	Sonstige Ausfallursachen (Aufkleber, Druckstoß- oder Lageempfindlichkeit...) Miscellaneous (label, pressure pulsation or orientation sensitivity...)	-
TO2-T	TO2 Signalverlust (nicht wegen Kondensat) TO2 Drift < 2 % of signal per month	Luft Air
TO2-X	No fault found, field return within Testo	-

Linearity graph

Peter Ziegler

Output Signal vs. Concentration



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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.