

Technical data

testo 350 Control Unit

	testo 350 Control Unit	Analog output box (mA Out)
Operating temperature	-5 to +45 °C	-5 to +45 °C
Storage temperature	-20 to +50 °C	-20 to +50 °C
Battery type	Lithium battery	–
Battery life	5 h (without wireless connection)	–
Memory	2 MB (250,000 meas. values)	–
Weight	440 g	305 g
Dimensions	88 x 38 x 220 mm	200 x 89 x 37 mm
Protection class	IP40	–
Warranty	2 years	3 years

Country permits BLUETOOTH® wireless transmission for testo 350

The BLUETOOTH® radio module used by Testo is permitted for the following countries and may only be used in those countries, i.e. the BLUETOOTH® wireless transmission may not be used in any other country!

Europe including all EU member states

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and Turkey

European countries (EFTA)

Iceland, Liechtenstein, Norway, Switzerland

Non-European countries

Canada, USA, Japan, Ukraine, Australia, Columbia, El Salvador, Mexico, Venezuela, Ecuador, New Zealand, Bolivia, Dominican Republic, Peru, Chile, Cuba, Costa Rica, Nicaragua, Korea, Belarus.

Technical data testo 350 analyzer box

	Measuring range	Accuracy ±1 digit	Resolution	Reaction time t ₉₀
O₂ measurement	0 to +25 Vol. % O ₂	±0.8% of fsv (0 to +25 Vol. % O ₂)	0.01 Vol. % O ₂ (0 to +25 Vol. % O ₂)	20 s (t ₉₅)
CO measurement (H₂ compensated)*	0 to +10.000 ppm CO	±5% of m.v. (+200 to +2.000 ppm CO) ±10% of m.v. (+2.001 to +10.000 ppm CO) ±10 ppm CO (0 to +199 ppm CO)	1 ppm CO (0 to +10.000 ppm CO)	40 s
CO_{low} measurement (H₂ compensated)*	0 to 500 ppm CO	±5% of m.v. (+40 to +500 ppm CO) ±2% ppm CO (0 to +39,9 ppm CO)	1 ppm CO (0 to +500 ppm CO)	40 s
NO measurement	0 to +4.000 ppm NO	±5% of m.v. (+100 to +1.999 ppm NO) ±10% of m.v. (+2.000 to +4.000 ppm NO) ±5 ppm CO (0 to +99 ppm CO)	±1 ppm NO (0 to +4.000 ppm NO)	30 s
NO_{low} measurement	0 to +300 ppm NO	±5% of m.v. (+40 to +300 ppm NO) ±2 ppm NO (0 to +39.9 ppm NO)	±0.1 ppm NO (0 to +300 ppm NO)	30 s
NO₂ measurement	0 to +500 ppm NO ₂	±5% of m.v. (+100 to +500 ppm NO ₂) ±5 ppm NO ₂ (0 to +9,99 ppm NO ₂)	±0.1 ppm NO ₂ (0 to +500 ppm NO ₂)	40 s
SO₂ measurement	0 to +5.000 ppm SO ₂	±5% of m.v. (+100 to +2.000 ppm SO ₂) ±10% of m.v. (+2.001 to +5.000 ppm SO ₂) ±5 ppm SO ₂ (0 to +99 ppm SO ₂)	±1 ppm SO ₂ (0 to +5.000 ppm SO ₂)	30 s
CO₂ measurement (IR)	0 to +50 Vol. % CO ₂	±0.3 Vol. % CO ₂ (0 to 25 Vol. % CO ₂) ±0.5 Vol. % CO ₂ (25 to 50 Vol. % CO ₂) ±1.5% of m.v. (>50 Vol. % CO ₂)	0.01 Vol. % CO ₂ (0 to 25 Vol. % CO ₂) 0.1 Vol. % CO ₂ (>25 Vol. % CO ₂)	10 s
H₂S measurement	0 to +300 ppm H ₂ S	±5% of m.v. (+40 to +300 ppm) ±2 ppm (0 to +39.9 ppm)	0.1 ppm (0 to +300 ppm)	35 s

* H₂ only as an indicator

	Single dilution with selectable dilution factor (x2, x5, x10, x20, x40)			Dilution of all sensors (factor 5) When dilution of all sensors is activated, the measurement values of O ₂ , CO ₂ -(IR) and C _x H _y are not shown in the display.		
	Measuring range	Accuracy ±1 digit	Resolution	Measuring range	Accuracy ±1 digit	Resolution
CO measurement (H ₂ compensated)	depending on selected factor	±2% of m.v. (additional error)	1 ppm	2.500 to 50.000 ppm	±5 % of m.v. (additional error) Press. range -100 to 0 mbar at probe tip	1 ppm
CO _{low} measurement (H ₂ compensated)	depending on selected dil. factor		0.1 ppm	500 to 2.500 ppm		0.1 ppm
NO measurement			1 ppm	1.500 to 20.000 ppm		1 ppm
NO _{low} measurement			0.1 ppm	300 to 1.500 ppm		0.1 ppm
SO ₂ measurement			1 ppm	500 to 25.000 ppm		1 ppm
C _x H _y measurement	Methane: 100 to 40,000 ppm Propane: 100 to 21,000 ppm Butane: 100 to 18,000 ppm		10 ppm			
NO ₂ measurement			500 to 2.500 ppm		0.1 ppm	
H ₂ S measurement				200 to 1.500 ppm		0.1 ppm

Technical data

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	Measuring range	Accuracy ±1 digit	Resolution	Reaction time t_{90}
Degree of effectivity	0 to +120 %		0.1 % (0 to +120 %)	
Flue gas loss	0 to +99.9 % qA		0.1 % qA (-20 to +99.9 % qA)	
CO ₂ calculation	0 to CO _{2 max} Vol. % CO ₂	calculated from O ₂ ±0.2 Vol. %	0.01 Vol. % CO ₂	40 s
Differential pressure 1	-40 to +40 hPa	±1.5% of m.v. (-40 to -3 hPa) ±1.5% of m.v. (+3 to +40 hPa) ±0.03 hPa (-2.99 to +2.99 hPa)	0.01 hPa (-40 to +40 hPa)	
Differential pressure 2	-200 to +200 hPa	±1.5% of m.v. (-200 to -50 hPa) ±1.5% of m.v. (+50 to +200 hPa) ±0.5 hPa (-49.9 to +49.9 hPa)	0.1 hPa (-200 to +200 hPa)	
Flow velocity	0 to +40 m/s		0.1 m/s (0 to +40 m/s)	
Absolute pressure (opt. when equipped with IR sensor)	-600 to +1.150 hPa	±10 hPa	1 hPa	
Flue gas dewpoint calculation	0 to 99.9 °C td		0.1 °C td (0 to 99.9 °C td)	
Type K (NiCr-Ni)	-200 to +1.370 °C	±0.4 °C (-100 to +200 °C) ±1 °C (-200 to -100.1 °C) ±1 °C (+200.1 to +1370 °C)	0.1 °C (-200 to +1.370 °C)	
Type S (Pt10Rh-Pt)	0 to +1.760 °C	±1 °C (0 to +1.760 °C)	0.1 °C (0 to +1.760 °C)	
Ambient temperature probe (NTC)	-20 to +50 °C	±0.2 °C (-10 to +50 °C)	0.1 °C (-20 to +50 °C)	

Technical data CxHy sensor

Meas. parameter	Measuring range ¹	Accuracy ±1 digit	Resolution	Min. O ₂ requirement in flue gas	Reaction time t_{90}	Response factor ²
Methane	100 to 40.000 ppm	<400 ppm (100 to 4.000 ppm) <10% of m.v. (>4.000 ppm)	10 ppm	2% + (2 x m.v. methane)	<40 s	1
Propane	100 to 21.000 ppm			2% + (5 x m.v. propane)		1.5
Butane	100 to 18.000 ppm			2% + (6.5 x m.v. butane)		2

¹ Lower explosion limit (LEL) must be adhered to.

² The HC sensor is adjusted to methane ex-works. It can be adjusted to a different gas (propane or butane) by the user.

General technical data

Dimensions	330 x 128 x 438 mm	Trigger input	Voltage 5 to 12 Volt (rising or trailing edge) pulse width > 1 sec load: 5 V/max, 5 mA, 12 V/max. 40 mA
Weight	4800 g	Warranty	Measuring instrument 2 years (excepting wearing parts e.g. gas sensors...) Gas sensors CO/NO/NO ₂ /SO ₂ /H ₂ /C _x H _y : 1 year O ₂ sensor: 1 1/2 years CO ₂ -IR sensors: 2 years The warranty applies to average sensor load. Rech. battery: 1 year
Storage temperature	-20 to +50 °C	Protection class	IP40
Operating temperature	-5 to +45 °C	Battery life	Maximum load approx. 2.5 h
Housing material	ABS		
Memory	250,000 readings		
Power supply	AC mains unit 100V to 240V (50 to 60 Hz)		
DC voltage input	11 V to 40 V		
Max. dust load	20 g/m ³ dust in flue gas		
Dewpoint calculation	0 to 99 °Ctd		
Max. positive pressure	max. +50 mbar		
Max. negative pressure	min. -300 mbar		
Pump through-flow	1 l/min. with through-flow monitoring		
Hose length 16.2 m (corresponds to 5 probe hose extensions)			
Max. humidity load	+70 °C dewpoint temperature		