

**PART NUMBERS**

PC software and testo databus	Part no.	Printers and accessories	Part no.
Software easyEmission, incl. USB connection cable instrument-PC.	0554 3334	Testo fast printer with wireless infrared interface, 1 roll of thermal paper and 4 batteries	0554 0549
Software easyEmission, incl. Testo databus controller with USB-connection cable instrument-PC, cable for Testo databus. For example, if several testo 350 emissions analyzer are connected to the Testo databus, they can be controlled via a PC (possible measurement interval in databus from 1 measurement per second)	0554 3336	Bluetooth printer kit with wireless Bluetooth interface, incl. 1 roll of thermal paper, rech. battery and power supply	0554 0553
Multiple software license easyEmission for emissions analyzer testo 350	0554 3337	Spare thermal paper for printer (6 rolls), 10 years legibility	0554 0568
6.5 ft. connection cable	0449 0075	Spare thermal paper for printer (6 rolls)	0554 0569
16 ft. connection cable	0049 0076	Other cable lengths up to 3,000 ft. on request	
65 ft. connection cable	0049 0077	Analog output box set, 6 channels, 4 to 20mA, to transfer values (i.e. analog recorder). Kit includes: analog output box, 6.5 ft. connection cable	0554 3149
Other cable lengths up to 3,000 ft. on request		<i>Contact Testo for standard probes, engine probes, industrial probes, pitot tubes, and more.</i>	

**TECHNICAL DATA**

Measurement	Measurement range	Accuracy	Resolution	Reaction time	Reaction type
Temperature Type K (NiCr-Ni)	-328° to 2,498 °F	±0.7 °F (-148° to 392 °F) ±1 °F (rest of range)	0.1 °F		
Temperature Type S (Pt10Rh-Pt)	32° to 3,200 °F	±1 °F (32° to 3,200 °C)	1 °F		
Efficiency	0 to 120 %		0.1 % (0 to +120%)		
Exhaust gas loss	0 to 99.9 %qA		0.1 % qA (-20 to +99.9 % qA)		
CO <sub>2</sub> calculation	0 to CO <sub>2</sub> max Vol.% CO <sub>2</sub>	Calculated from O <sub>2</sub> ±0.2 Vol.%	0.01 Vol.% CO <sub>2</sub>	40 s	t <sub>90</sub>
Differential pressure 1	-16 to 16 "H <sub>2</sub> O	±1.5% of m.v. -16 to -1 "H <sub>2</sub> O ±1.5% of m.v. 1.2 to 16 "H <sub>2</sub> O 0.1 "H <sub>2</sub> O -1.20 to 1.20 "H <sub>2</sub> O	0.004 "H <sub>2</sub> O (-16 to 16 "H <sub>2</sub> O)		
Differential pressure 2	-80 to 80 "H <sub>2</sub> O	±1.5% of m.v. (-80 to 20 "H <sub>2</sub> O) ±1.5% of m.v. (20 to 80 "H <sub>2</sub> O) 0.2 "H <sub>2</sub> O (-20 to +0 "H <sub>2</sub> O)	0.004 "H <sub>2</sub> O (-80 to 80 "H <sub>2</sub> O)		
Flow velocity	0 to 131 ft./sec		0.1ft/sec to 131 ft./sec		
Absolute pressure (opt. if IR sensor equipped)	-240 to 461 "H <sub>2</sub> O	± 4 "H <sub>2</sub> O	0.4 "H <sub>2</sub> O		
Flue gas dewpoint calculation	32° to 212 °F		0.18 °F (32° to 212 °F)		

**TECHNICAL DATA**

**Analyzer Box testo 350**

Measurement	Measurement range	Accuracy	Accuracy (Plus **)	Resolution	Reaction time	Reaction type
O <sub>2</sub>	0 to 25 Vol.% O <sub>2</sub>	±0.2% of vol. (0 to 25 Vol.%)		0.01 Vol.% O <sub>2</sub> (0 to 25 Vol.%)	20 s	t <sub>95</sub>
CO (H <sub>2</sub> compensated)*	0 to 10000 ppm CO	±5 ppm (0 to 199 ppm) ±5% of mv (200 to 2000 ppm) ±10% of mv (2001 to 10000 ppm)	±2 ppm ±2% of mv	1 ppm CO (0 to 10000 ppm)	40 s	t <sub>90</sub>
CO <sub>low</sub> (H <sub>2</sub> compensated)*	0 to 500 ppm CO	±2 ppm (0 to 39.9 ppm) ±5% of mv (40 to 500 ppm)	±2 ppm ±2% of mv	0.1 ppm CO (0 to 500 ppm)	40 s	t <sub>90</sub>
NO	0 to 4000 ppm NO	±5 ppm (0 to 99 ppm) ±5% of mv (100 to 1999.9 ppm) ±10% of mv (2000 to 4000 ppm)	±2 ppm ±2% of mv ±2% of mv	1 ppm NO (0 to 3000 ppm)	30 s	t <sub>90</sub>
NO <sub>low</sub>	0 to 300 ppm NO	±2 ppm (0 to 39.9 ppm) ±5% of mv (40 to 300 ppm)	±2 ppm ±2% of mv	0.1 ppm NO (0 to 300 ppm)	30 s	t <sub>90</sub>
NO <sub>2</sub>	0 to 500 ppm NO <sub>2</sub>	±5 ppm (0 to 99.9 ppm) ±5% of mv (100 to 500 ppm)	±2 ppm ±2% of mv	0.1 ppm NO <sub>2</sub> (0 to 500 ppm)	40 s	t <sub>90</sub>
SO <sub>2</sub>	0 to 5000 ppm SO <sub>2</sub>	±5 ppm (0 to 99 ppm) ±5% of mv (100 to 2000 ppm) ±10% of mv (2001 to 5000 ppm)	±2 ppm ±2% of mv ±2% of mv	1 ppm SO <sub>2</sub> (0 to 5000 ppm)	30 s	t <sub>90</sub>
CO <sub>2</sub> (IR)	0 to 50 Vol.% CO <sub>2</sub>	±0.3 Vol. % CO <sub>2</sub> + 1% of mv (0 to 25 Vol.%) ±0.5 Vol. % CO <sub>2</sub> + 1.5% of mv (>25 to 50 Vol.%)		0.01 Vol.% CO <sub>2</sub> (0 to 25 Vol.%) 0.1 Vol.% CO <sub>2</sub> (>25 Vol.%)	10 s	t <sub>90</sub>
H <sub>2</sub> S	0 to 300 ppm H <sub>2</sub> S	±2 ppm (0 to 39.9 ppm) ±5% of mv (40 to 300 ppm)		0.1 ppm (0 to 300 ppm)	35 s	t <sub>90</sub>

\* H<sub>2</sub> display only as an indicator

\*\* Accuracy Plus: Measurement accuracy can be increased by performing an on-site pre-test calibration procedure. Contact Testo for Calibration Procedure details.

**Technical data HC Sensor**

Measurement	Measurement range <sup>1</sup>	Accuracy	Resolution	Min. O <sub>2</sub> requirement in flue gas	Response time t <sub>90</sub>	Response-factor <sup>2</sup>
Methane	100 to 40,000 ppm	< 400 ppm (100 to 4000 ppm) < 10 % of m.v. (> 4000 ppm)	10 ppm	2% + (2 x m.v. methane)	< 40 sec.	1
Propane	100 to 21,000 ppm	< 400 ppm (100 to 4000 ppm) < 10 % of m.v. (> 4000 ppm)	10 ppm	2% + (5 x m.v. propane)	< 40 sec.	1.5
Butane	100 to 18,000 ppm	< 400 ppm (100 to 4000 ppm) < 10 % of m.v. (> 4000 ppm)	10 ppm	2% + (6.5 x m.v. butane)	< 40 sec.	2

<sup>1</sup> Lower explosion limit must be adhered to.

<sup>2</sup> The HC sensor is adjusted to methane in the factory. It can be adjusted to another gas (propane or butane) by the user.

**TECHNICAL DATA**

**Individual dilution with selectable dilution factor (x2, x5, x10, x20, x40)**

Measurement	Measurement range	Accuracy	Resolution
CO (H <sub>2</sub> compensated)	dilution factor-dependent	±2 % of m.v. (additional error)	1 ppm
CO <sub>low</sub> (H <sub>2</sub> compensated)	dilution factor-dependent	±2 % of m.v. (additional error)	0.1 ppm
NO	dilution factor-dependent	±2 % of m.v. (additional error)	1 ppm
NO <sub>low</sub>	dilution factor-dependent	±2 % of m.v. (additional error)	0.1 ppm
SO <sub>2</sub>	dilution factor-dependent	±2 % of m.v. (additional error)	1 ppm
HC-Pellistor	dilution factor-dependent	±2 % of m.v. (additional error)	10 ppm

**Dilution of all sensors (Factor 5) Note: O<sub>2</sub> is not displayed when activated**

Measurement	Measurement range	Accuracy	Resolution
CO (H <sub>2</sub> compensated)	2500 to 50000 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	1 ppm
CO <sub>low</sub> (H <sub>2</sub> compensated)	500 to 2500 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	0.1 ppm
NO	1500 to 20000 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	1 ppm
NO <sub>low</sub>	300 to 1500 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	0.1 ppm
SO <sub>2</sub>	500 to 25000 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	1 ppm
NO <sub>2</sub>	500 to 2500 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 in "H <sub>2</sub> O at probe tip	0.1 ppm
H <sub>2</sub> S	200 to 1500 ppm	±5 % of m.v. (additional error) Pressure range -40 to 0 "H <sub>2</sub> O at probe tip	0.1 ppm

**Control Unit**

Operating temperature	20° to 115 °F
Storage temperature	-4° to 122 °F
Battery type	Li-Ion
Battery life	5 hr. (without wireless connection)
Memory	2 MB (250,000 measurement values)
Weight	0.97 lbs.
Dimensions	10 x 4.5 x 2.3 in.
Warranty	2 years
Protection class	IP 40

## TECHNICAL DATA

### Other operational data

Dimensions	13 x 5 x 17.2 in.
Weight	10.58 lbs.
Storage temperature	-4° to 122 °F
Operating temperature	22° to 113 °F
Housing material	ABS
Memory	250,000 measurement values
Power supply	AC power supply 90V to 260V (47 to 65 Hz)
DC voltage supply	11V to 40V
Maximum dust load	20 g/m <sup>3</sup> dust in flue gas
Dewpoint calculation	32° to 212 °F
Maximum positive pressure flue gas	20 "H <sub>2</sub> O
Maximum negative pressure	-120 "H <sub>2</sub> O
Pump flow rate	1 l/min. with flow rate monitoring
Hose length	max 53 ft. (corresp. to 5 probe hose extensions)
Maximum humidity load	158°F at gas input of analyzer box (33.5 Vol.% H <sub>2</sub> O)
Trigger input	Voltage 5 to 12 Volt (rising or falling flank) Impulse width > 1 sec Load: 5 V/max, 5 mA, 12 V/max. 40 mA
Protection class	IP40
Battery life	Maximum load approx. 2.5 hr. (Dependent upon analyzer configuration)

## WARRANTY

Instrument*	2 years for instrument and probe (except for replaceable parts, i.e. gas sensors, battery...)
Gas sensors	CO/NO/NO <sub>2</sub> /SO <sub>2</sub> /H <sub>2</sub> S/C <sub>x</sub> H <sub>y</sub> ; 1 year
O <sub>2</sub> sensor	1 ½ years
CO <sub>2</sub> -IR sensor	2 years
Rechargeable battery	1 year

\*Warranty applies for average sensor load.