

## Industrial flue gas – Affordable analysis and documentation

### testo 325-I

testo 325-I provides affordable flue gas analysis for CO, NO and SO<sub>2</sub>. It combines precision with user-friendly operation and low costs. It is the ideal instrument for checking emissions and monitoring thermal processes.

- User-friendly operation and handling – Large display
- Measurement cell can be easily changed by the user
- Magnetic SoftCase protects from dirt and impact

Printer and Accessories	Part no.
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries, For printout of reading on site	0554 0547
External recharger incl. 4 Ni-MH rechargeable batteries with built-in, international mains adapter - 100-240 V, 300 mA, 50/60 Hz, 12 VA/instrument	0554 0610
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years	0554 0568
Additional Accessories and Spare Parts	Part no.
Sealing cone with knurled screw for sampling probe	0554 9050
Power unit 230 V/ 8 V/ 1 A, for instrument (European plug), for mains operation and battery recharging	0554 1084
Spare particle filter (10 off)	0554 0040
Smoke tester with oil, soot sheet, for measuring soot in flue gas	0554 0307
Filter paper to determine smoke number, 40 strips for approx. 200 measurements	0554 0308
Transport and Protection	Part no.
SoftCase made of elastic plastic with magnetic plate, carrier strap; Protects instrument from dirt and impact	0516 2570
TopSafe (indestructible protection case) IP 42, incl. magnetic plate, carrier strap; Protects instrument from dirt, moisture and impact	0516 0444
Transport case (plastic) for instrument, probes and accessories, For safe and orderly storage	0516 3250
Alu. case for analyser, probe and accessories, Probes in lid make it easy to find parts in case	0516 0325

#### testo 325-I SO<sub>2</sub>

##### SO<sub>2</sub> Set

SO<sub>2</sub> Set includes analyser and sampling probe (with Tygon® hose), with batteries and calibration protocol

Part no. 0563 3260

- Checks emissions in coal and heavy oil burners
- Monitors flue gas desulphurisation systems
- Process monitoring in the glass and ceramics industry

#### testo 325-I NO

##### NO Set

NO set includes analyser and sampling probe, with batteries and calibration protocol

Part no. 0563 3261

- Checks emissions in motors and burners
- Monitors nitrogen removal systems/catalytic converters
- Adjusts flue gas feedback for NO<sub>x</sub> reduction

#### testo 325-I CO<sub>low</sub>

##### CO<sub>low</sub> Set

CO<sub>low</sub> set includes analyser and sampling probe, with batteries and calibration protocol

Part no. 0563 3262

- Emission control and adjustment of gas burners
- Localisation of ambient air leaks in long flue gas paths

#### Common data

Dimensions	216 x 68 x 47 mm
Weight	500 g
Oper. temp.	+4 to +45 °C
Storage temp.	-20 to +50 °C
Battery type	4 AA batteries
Battery life	4 h
Material/Housing	ABS
Power supply	Mains unit
Voltage	115/230 V / 50/60 Hz
Display	LCD, 2 lines
Warranty:	
Measuring instrument:	2 years (excluding working parts, e.g. measurement cells, ...)
Measurement cells:	6 months
Power supply:	Battery or power unit



Prints readings with date and time



Built-in condensate trap protects instrument



Adjusts flue gas feedback for NO<sub>x</sub> reduction

Technical data	SO <sub>2</sub>	NO	CO <sub>low</sub>
Meas. range	0 to +3000 ppm SO <sub>2</sub>	0 to +1000 ppm NO	0 to +2000 ppm CO
Accuracy ±1 digit	±5% of mv (+400 to +3000 ppm SO <sub>2</sub> ) ±20 ppm SO <sub>2</sub> (0 to +400 ppm SO <sub>2</sub> )	±5% of mv (+400 to +1000 ppm NO)	±5% of mv (+400 to +2000 ppm CO)
Resolution	1 ppm SO <sub>2</sub>	1 ppm NO	1 ppm CO
Reaction time	80 s	60 s	60 s

Description	Illustration	Part no.
Sampling probe, 700 mm immersion depth, incl. probe stop, Tmax +1000°C, 3 m hose	700 mm Ø 6 mm	0699 3451/3
Sampling probe, 300 mm, Ø 6 mm, Tmax. +500 °C, 3 m hose, without handle, is included in SO <sub>2</sub> set, NO set and CO <sub>low</sub> set (see Figure above)		

## Your introduction to portable flue gas analysis

### testo 325-I CO<sub>high</sub> [O<sub>2</sub>]

The testo 325-I CO<sub>high</sub> [O<sub>2</sub>] is your step to affordable flue gas analysis. Easy handling and low costs make it the ideal portable partner for

- checking the atmosphere of thermal processes (funnel furnaces, hardening furnaces, smelting and annealing)
- adjusting process burners and gas motors.

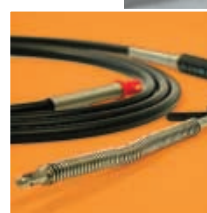
The readings are displayed constantly on the display for as

long as the pump is running.

- Measurement cells can be easily changed by the user
- Instrument protection on account of detachable condensate trap



Prints readings on site with date, time



Special flue gas probe with 3 m hose



Tuning motors with the CO<sub>high</sub> [O<sub>2</sub>] analyser

#### testo 325-I CO<sub>high</sub>

Flue gas analyser with rechargeable batteries and calibration protocol

Part no. 0632 3264

#### testo 325-I CO<sub>high</sub> [O<sub>2</sub>]

Flue gas analyser with rechargeable batteries and calibration protocol

Part no. 0632 3265

Accessories Ordering data	Part no.
Softcase made of elastic plastic	0516 2572
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	0554 0547
Spare thermal paper for printer (6 rolls)	0554 0569
Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years	0554 0568
Power unit 230 V/ 8 V/ 1 A, for instrument (European plug), for mains operation and battery recharging	0554 1084
Spare particle filter (10 off)	0554 0040
Transport case (plastic) for instrument, probes and accessories, For safe and orderly storage	0516 3250

Technical data	CO	O <sub>2</sub>	Type K (NiCr-Ni)
Meas. range	0 to 7 Vol. %	0 ... 21 Vol. %	-40 to +1000 °C
Accuracy ±1 digit	±40 ppm (0 to 0.08 Vol. %) ±5% of mv (0.08 to 0.2 Vol. %) ±10% of mv (0.2 to 7 Vol. %)	±0.2 Vol. %	±0.5 °C (-40 to +99.9 °C) ±0.5 % of mv (+100 to +1000 °C)
Resolution	0.001 Vol. %	0.1 Vol. %	0.1 °C
Oper. temp.	-5 to +45 °C	Storage temp.	-20 to +50 °C
Warranty	Meas. instr.: 2 years (excluding wear parts, e.g. meas. cells, ...); O <sub>2</sub> meas. cell: 1.5 years; CO meas. cell: 1 year		

#### Recommended Set: Basic Set testo 325-I CO<sub>high</sub> [O<sub>2</sub>] in case

Flue gas analyser with rechargeable batteries and calibration protocol	0632 3265
Softcase made of elastic plastic	0516 2572
Power unit 230 V/ 8 V/ 1 A, for instrument (European plug), for mains operation and battery recharging	0554 1084
Flexible flue gas probe, specially for measuring motor emissions, Tmax +500°C, 3 m hose	0600 9640
Spare particle filter (10 off)	0554 0040
Transport case (plastic) for instrument, probes and accessories, For safe and orderly storage	0516 3250

Description	Illustration	Part no.			
Sampling probe, 700 mm immersion depth, incl. probe stop, Tmax +1000°C, 3 m hose	700 mm Ø 8 mm	0699 3451/3			
Flexible flue gas probe, specially for measuring motor emissions, Tmax +500°C, 3 m hose	Max. immersion depth: 235 mm Flexible range: 160 mm Ø 10 mm	0600 9640			
Description	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
Waterproof immersion/penetration probe, T/C Type K	114 mm 50 mm Ø 5 mm Ø 3.7 mm	-60 to +400 °C	Class 2	7 s	0602 1293 Conn.: Fixed cable
Pipe wrap probe with Velcro strip, for temperature measurement on pipes with diameter up to max. 120 mm, Tmax +120°C	395 mm 20 mm	-50 to +120 °C	Class 1	90 s	0628 0020 Conn.: Fixed cable
Robust air probe, T/C Type K	115 mm Ø 4 mm	-60 to +400 °C	Class 2	25 s	0602 1793 Conn.: Fixed cable