GASTEC CG-1 breathing air kit

Compressed breathing air measurement kit for carbon monoxide, carbon dioxide, water vapour and oil mist

The CG-1 kit checks compressed breathing air from a cylinder or compressor for four contaminants at once: carbon monoxide, carbon dioxide, water vapour and oil mist. The measuring device takes the four Airtec tubes and needs no electricity. Everything packs into a carrying case, so the kit can be taken to the air source.



4	None	5–50 ppm	5–20 min	250–3000
Contaminants measured at once	Power supply needed	Carbon monoxide measuring range	Sampling time per tube	Carbon dioxide measuring range, ppm

Performance

Measures	Carbon monoxide, carbon dioxide, water vapour and oil mist, all four at the same time
Tubes	One Airtec tube per contaminant, No. 1A, 2A, 6A and 109AD; ranges in the table below

Operating conditions

Air source	Compressed breathing air from a cylinder or compressor, through a pressure reducer

Mechanical

Connection	The measuring device connects to the pressure reducer, fully until it locks
Pressure reducer (optional)	Inlet ISO 12209 male, outlet 21KAAK13MPN
Cylinder adapters (optional)	ISO 12209 female × ISO 12209 female, for 232 or 300 bar CGA 347 or CGA 346, female or male × ISO 12209 female
Carrying case	Holds the kit, and also the optional pressure reducer, the flowmeters and one adapter

Electrical and communication

Power supply	None; the kit measures without any electricity or power source

Measurement procedure

Before use	Read and understand the instruction manual completely
Leak check	Device on the pressure reducer, no shrouds; supply open 1 min, then closed 6 min Pressure drop less than 5 %
Shrouds	With the main valve closed, connect the four rubber shrouds fully until they lock
Purge	Open the supply valve slowly and purge the air supply system for 5 min, then close it
Sampling	Break off both tips of each tube with the tube tip holder Set the tubes in the rubber shrouds as marked on the device, both ends firmly covered Open the valve and time the sampling with the stopwatch 1A, 2A and 6A: 5 min; 109AD: 10 min, or 20 min for 0.1–0.2 mg/m³
Reading	Disconnect the shrouds at the end of the sampling time Remove tubes from shrouds, read each immediately

Kit contents, one of each

Measuring device	Model 370
Rubber shrouds, pack of 4	CG1-02
Carbon monoxide Airtec tube	No. 1A
Carbon dioxide Airtec tube	No. 2A
Water vapour Airtec tube	No. 6A
Oil mist Airtec tube	No. 109AD
Stopwatch	CG1-04
Tube tip holder	722
Carrying case	CG1-03
Deep socket	CG1-05
Instruction manual	CG1-09

Airtec tubes at the kit's measuring conditions

Contaminant	Tube No.	Measuring range	Flow rate, mL/min	Sampling time, min	Colour change	Shelf life, months
Carbon monoxide, CO	1A	5–50 ppm	100	5	yellow → blackish brown	36
Carbon dioxide, CO_2	2A	250–3000 ppm	190	5	yellowish orange → yellow	36
Water vapour, H_2O	6A	10–80 mg/m³	120	5	yellow → green	36
Oil mist	109AD	0.2–5.0 mg/m³	3000	10	pale vermilion → pale blue	24
Oil mist	109AD	0.1–0.2 mg/m³	3000	20	pale vermilion → pale blue	24

Colour change: colour of the unused tube → colour of the stained layer. Oil mist 0.1–0.2 mg/m³ (20 min): multiply the reading by the correction factor 0.5.

Kit and optional accessories

Item	Order code
GASTEC CG-1 compressed breathing air measurement kit, complete	GST_CG-1
Pressure reducer; inlet ISO 12209 male, outlet 21KAAK13MPN	GST_CG1-10
Flowmeters 200 mL/min and 5 L/min full scale, rubber tubing	GST_CG1-18
Adapter ISO 12209 female × ISO 12209 female, 232 bar	CG1-11
Adapter ISO 12209 female × ISO 12209 female, 300 bar	CG1-12
Adapter CGA 347 female × ISO 12209 female	CG1-14
Adapter CGA 347 male × ISO 12209 female	CG1-15
Adapter CGA 346 female × ISO 12209 female	CG1-16
Adapter CGA 346 male × ISO 12209 female	CG1-17

Order from Analyt-MTC with the order codes. The pressure reducer is not part of the kit.

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