

# THE GAS-RANGER™



**A rugged and versatile instrument particularly suited to construction environments**

**The Ranger features a tough, water resistant case and a built-in high-speed, high-throughput pump, useful for bar holing and line purging. It detects natural gas with a resolution of 50ppm and a calibrated accuracy of  $\pm 2\%$  LEL. Carbon monoxide, oxygen and H<sub>2</sub>S sensors are optional.**

The Gas-Ranger™ is available in 10 models, which differ in gases detected (natural gas, CO, O<sub>2</sub>, H<sub>2</sub>S) and display method for natural gas (% LEL and % GAS or % GAS only). The models can be summarized as follows:

	% LEL and % GAS	% GAS only
Natural gas	RGI-201	RGI-211
Natural gas and CO	RGC-301	RGC-311
Natural gas and O <sub>2</sub>	RGO-321	RGO-322
Natural gas, CO/H <sub>2</sub> S and O <sub>2</sub>	RGA-411	RGA-412
Natural gas, CO, O <sub>2</sub> and H <sub>2</sub> S	RGA-611	RGA-612

All models can be used to test ambient air for natural gas, bar-hole, and track gas leaks in pipes and other conduits.

All models which detect carbon monoxide (CO) may be used to test for CO in ambient air, in flue gas, and in gases given off by appliances. The RGA-411 and 412 models feature a combined CO and H<sub>2</sub>S cell (responds to both gases) which can be calibrated with CO.

All models have a TRACK GAS scale, which displays the concentration of natural gas in % LEL (Models RGI-201, RGC-301, RGA-411 and RGA-611) or % GAS (Models RGI-211, RGC-311, RGA-412 and RGA-612) and operates a beeper to help locate the source of a leak.

All models are offered in a configuration suitable for automatic calibration in a Bascom-Turner docking station. Additionally, they can be automatically calibrated using Bascom-Turner calibration gas and either system gas or pure methane. All models can also be calibrated manually using some other calibration gas.

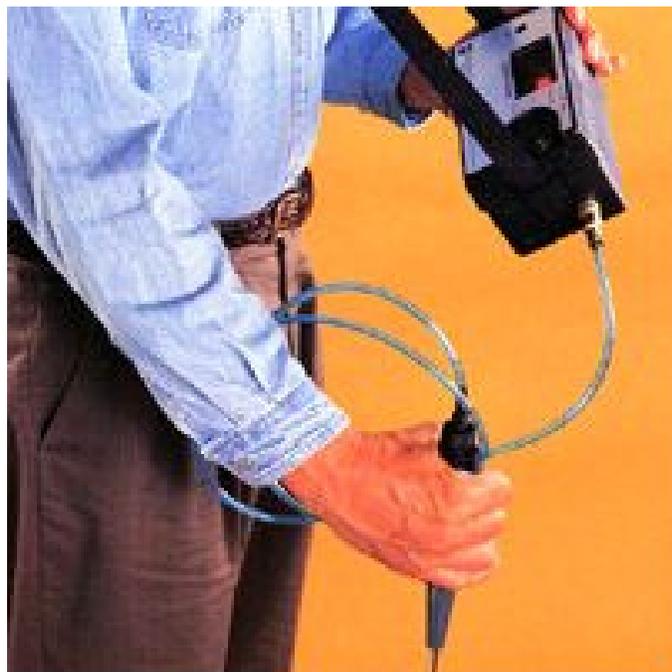
## Bascom-Turner Instruments



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# GAS-RANGER® SPECIFICATIONS

Sensors	Dual catalytic (CH <sub>4</sub> ) Thermal conductivity (CH <sub>4</sub> ) Electrochemical (CO) Electrochemical (CO/H <sub>2</sub> S) Electrochemical (H <sub>2</sub> S) Electrochemical (O <sub>2</sub> )
Resolution	From 0% to 5% gas: 0.01% GAS (0.2% LEL) From 5% to 100% gas: 1.0% GAS CO: 1 ppm H <sub>2</sub> S: 1ppm O <sub>2</sub> : 0.1 vol %
Calibrated Accuracy (5° to 45°C)	%LEL: ± 2% of reading %GAS: ± 2% of reading CO: ± 5% ± 5 ppm (± 10 ppm above 1000 ppm) O <sub>2</sub> : ± 0.2 vol%
Lower limit of detection	0.005% GAS or 0.2% LEL 1ppm CO 1ppm H <sub>2</sub> S
Warm-up time	50 seconds
Operating temperature	-30°C to 50°C (-20°F to 120°F)
Storage temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0 to 98% RH (non-condensing)
Power supply	2 D-size alkaline batteries
Operating time per battery set	20 hours typical (25°C)
Dimensions	Length 19.8cm (7.80") Width 10.8cm (4.25") Depth 10.2cm (4.00")
Instrument weight	3.2 lb. (1.45 kg)



Each detector comes with A-CAL™ and D-CAL™ firmware, shoulder strap, standard probe(SP-306), water-block filter, straight hose with quick connect (QH-042), set of batteries, and operating manual. A-CAL software automatically calibrates a detector using Bascom-Turner calibration gas. A gas dispenser (CGD-001) or a manual calibration apparatus (PCA-302 and MCA-302) may be used to deliver the calibration gas. D-CAL firmware allows calibration and record keeping at local or remote docking stations.

Popular accessories include an instrument case (IC-301), a fiberglass or metal bar hole probe (BP-136, 236 or 536) and a water-stopper (WS-001).

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