



NO₂

SERIES
400

Portable Analysers for Toxic Gases

FEATURES

- ☐ Simple to use Toxic Gas Analysers.
- ☐ Compact, rugged, EM Radiation proof metal housing.
- ☐ Long life, easy to change Sensor.
- ☐ Both High and Low Audio-Visual Alarm capability.
- ☐ Low Power LCD monitoring.
- ☐ Powered by built-in rechargeable Ni-MH battery.
- ☐ Battery charger is standard with equipment.
- ☐ Sealed and oil-proof membrane touch-switches.
- ☐ Extremely compact and reliable due to Surface Mount technology.



SPECIFICATIONS	401	402	403	404	405	406	407
Gas	CO	H ₂ S	SO ₂	NO	NO ₂	Cl ₂	HCN
Range, ppm	0-500	0-100.0	0-20.0	0-250	0-30.0	0-10.0	0-100.0
Resolution, ppm	1	0.1	0.1	1	0.1	0.1	0.1
T90 Response time, sec	<20	<40	<20	<20	<25	<60	<60
Display type	LCD	LCD	LCD	LCD	LCD	LCD	LCD
linearity, ±% full scale	1	1	1	1	1	1	1
Accuracy, ±% full scale	2	2	2	2	2	2	2
Lo Alarm range, ppm	0-1000	0-100.0	0-100.0	0-1000	0-100.0	0-100.0	0-100.0
Hi Alarm range, ppm	0-1000	0-100.0	0-100.0	0-1000	0-100.0	0-100.0	0-100.0
Alarms	Respective LEDs on panel, accompanied with fast beep for Low Alarm and slow beep for High Alarm.						
Note: All electro-chemical sensors exhibit sensitivity to other gases. Detailed data on cross sensitivities is available upon request. A policy of continuous product improvement may make this information outdated. We reserve the right to make changes without prior information.							



GENERAL DESCRIPTION

Series 400 Toxic Gas Analysers are Portable TLV Monitors for any of above gases. These are compact and with appropriate optional back clamp can also be fixture-installed, wall-mounted, or can be worn on a belt. The sensor is located on the instrument top and is protected by a Stainless Steel cap. It is Intrinsically-Safe, incorporates latest technology and includes all features you would expect from a leading analyser in this segment. It is easy to operate, reliable and inexpensive. To operate simply push ON/OFF button. It calibrates at the turn of a preset and has an easy to read LCD digital display. LO and HIGH user preset Alarm are standard features. Alarm set value can be read on the display. On actuation of LO or HIGH Alarm, its respective LED will glow to give a warning, and it is accompanied by its distinctive tone - fast beep for LO and slow beep for HIGH Alarm. If Sensor is not connected, the LO Alarm is automatically actuated. If battery is weak a (LO) BAT indication will appear. The unit comes complete with built-in rechargeable NIMH battery and a mains charger - no batteries to change periodically. A recorder output is provided

should there be a requirement to log or to transport data, or connect to other systems. The instrument is housed in a rugged cast metal case that is strong, safe and cuts out electromagnetic radiation. The instrument has superior aesthetic appeal and is designed to last longer. The Sensor is a long-life, electrochemical device with a unique plug-in feature. It is warranted for twelve months and is easy to replace in the field.

Process Monitoring requires the concentration of a flowing gas stream and the Sensor Cap TCC has a tube-connection nozzle to facilitate user connection to a low pressure source by a plastic or similar 3mm ID tubing. The sample exits from holes on the cap around the inlet. In applications requiring atmospheric sampling, an optional inbuilt battery-powered hand probe with pump and 2 meter tubing to the instrument is available.

Personal Safety Monitoring requires diffusion sampling in the atmosphere in which the Analyser is placed and the 4008 Diffusion Sensing Cap DSC has a flat diffusion surface for this application. The standard Model 400 is supplied with DSC cap.

ORDERING INFORMATION

Description	Model No	Sensor
Toxic Gas Analyser CO	401	4010
Toxic Gas Analyser H ₂ S	402	4020
Toxic Gas Analyser SO ₂	403	4030
Toxic Gas Analyser NO	404	4040
Toxic Gas Analyser NO ₂	405	4050
Toxic Gas Analyser Cl ₂	406	4060
Toxic Gas Analyser HCN	407	4070
Optional Accessories		
Back clamp for 401 fixture or wall mounting	4005	
Back clamp for wearing on belt	4006	
Tube connecting cap TCC	4007	
Diffusion sensing cap DSC	4008	
Hand Probe with built-in pump and 2m tubing	4009	



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SERIES 400 HAS BEEN EXPANDED TO MONITOR A LARGER RANGE OF GASES.

THE NEW ADDITIONS ARE :

<u>MODEL NO.</u>	<u>GAS</u>	<u>RANGE (PPM)</u>	<u>RESOLUTION (PPM)</u>
408	H ₂	0-1000	1.0
412	NH ₃	0-50.0	0.1
413	PH ₃	0-5.00	0.01
414	ETO	0-20.0	0.1
415	Diborane	0-5.00	0.01
416	Silane	0-5.00	0.01
417	Germane	0-5.00	0.01
418	Arsine	0-5.00	0.01
419	Hydrogen Chloride	0-199.9	0.1
4201	Ozone	0-2.00	0.01
425	ETHYLENE (C ₂ H ₄)	0-2000 PPM	1 PPM
426	METHYL BROMIDE	0-100 mg/l	1 mg/l
427	PHOSPHINE	0-50 mg/l	1 mg/l

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