PORTABLE GAS CHROMATOGRAPH SYSTEM

Model ~ 4650 zNOSE®

FEATURES:

- DETECTS HYDROCARBONS C4 TO C25
- PORTABLE FIELD READY
- SELF CONTAINED
 - INTERNAL SAMPLE PUMP
 - INTEGRATED COMPUTER
- QUANTITATIVE
- QUALITATIVE ANALYSIS
- LOCKING SENSOR POSITION
- EXCEPTIONAL SENSITIVITY
- ANALYZE VAPORS IN 30-60
 SECONDS
- DATA STORAGE & ARCHIVE
- DATA TRANSFER USB PORT
- DISPLAY ON LAPTOP
- DC POWER WITH CHARGER



APPLICATION:

The 4650 zNOSE[®] Vapor detector and analyzer is a field ready fully integrated system. With an internal sampler pump and integrated computer, the 4650 zNOSE[®] identifies vapors as low as parts-per-billion.

A proprietary Surface Acoustic Wave (SAW) detector results in a system with previously unattainable sensitivity in a portable low-cost package.

DESCRIPTION:

Carrier Gas:	Helium, Typical 200 - 300 tests per day per charge
Analysis Time:	30– 60 Seconds
➤Display:	Windows any version

Utilizing a trap and helium carrier gas, the Model 4650 injects samples into a heated column and separation takes place. Materials sequentially exit the column and are deposited on the SAW detector. The deposit results in a change in the oscillating frequency of the resonator directly proportional to the mass.







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SPECIFICATIONS:

DETECTOR:	Surface Acoustic Wave (SAW) Quartz microbalance	
Dynamic Range:	10 ⁵	
Temperature:	0° C to 150° C, programmable	
Detects:	C4 to C25	
Sensitivity:	Parts per billion for many compounds in 10 seconds	
	Sensitivity will vary by compound sampling time, matrix, interferences & detector temperature ranges.	
Accuracy:	<2% standard deviation	
Dynamic Range:	10 ⁶ ±10%	
Recycle Time:	30 sec minimum	
SAMPLING:		
Sample Pump:	Internal	
Sample Introduction:	~.5 ml/sec	
Sample Time:	1-300 seconds, User Settable	
Sample Absorption:	Internal tenax preconcentrator	
Carrier Gas:	Helium, (Min 99.999% purity, #6) Replaceable Cylinder 95cc at 17.6MPz (2560 psi) Typical use is 200 - 300 tests per day on one helium charge	
Compound Identification:	Automatic with user calibration	
COLUMN:		
Limits:	35°C to 225°C -depending on column	
Ramping:	1 – 18º C/sec	
<u>Display:</u>	10.8 in Clear Type Full HJD Plus	
Resolution:	1920 x 1280	
Screen:	10 Point Multi-Touch Surface Pen	
ENVIRONMENT:		
Operating Temperature:	32°F to 105° (0°C to 40°C)	
Relative Humidity:	0 - 95% non-condensing	
Relative Humary.	Ŭ	
Power:	Battery Pack: 28V DC, 16 AHr Lithium Ion (5 hr typical)	
Charger Power:	100 – 127 VAC at 3 amps – 50/60 Hz; 200 - 240 VAC at 1.5 amps – 50/50 Hz	
INLET CONNECTION / TEMP	ERATURE	
Inlet Port: Stain	less steel LUER	
Temperature:50°C	to 200°C	
DATA STORAGE & TRANSFER:		
USB	Port	
ON ON	TECHNICAL ASSOCIATES /ERHOFF TECHNOLOGY on Ave., Canoga Park, CA 91303	
	3-7043 (Phone) 818-883-6103 (Fax)	

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WEIGHT & DIMENSIONS:

DISPLAY:

Weight:	1.4 lbs	(64 g)
Length:	10.52 in	(26.7 cm)
Width:	7.4 in	(18.7 cm)
Thickness:	.34 in	(.86 cm)

HEAD:

Weight:	5.7 lbs	(2.6 kg)
Length:	15.0 in	(38.1 cm)
Width:	4.3 in	(10.9 cm)
Height:	6.8 in	(17.3 cm)

SUPPORT:

Weight:	18.7 lbs	(8.5 kg)
Length:	12.5 in	(31.8 cm)
Width:	9.7 in	(26.4 cm)
Height:	5.8 in	(14.5 cm)

CHARGER:

Weight:	7.7 lbs	(3.5 kg)
Length:	13.5 in	(34.25 cm)
Width:	9.7 in	(14 cm)
Height:	3.7 in	(9.5 cm)





