

Handheld Formaldehyde Meter/Monitor



HFX105

Formaldehyde (HCHO) is one of the most commonly poisonous substances found in daily life and industry. The HAL-HFX105 formaldehyde monitor/meter is designed for use in a wide variety of applications such as furniture, floor boards, wall papers, paint, gardening, indoor decoration, construction, dye stuffs, paper manufacture, pharmaceutical, medical, food, cleaning, synthetic resins, textile treatment, horticulture and cosmetics. The HAL-HFX105, based on reliable electrochemical sensing technology, features fast response times, directly displays the formaldehyde concentration in ppm or mg/m³. The USB port provides capability of downloading of stored data as well as continuous, real-time monitoring of environment.

Features

- Wide measuring range
- Fast response
- Direct real time reading
- Manual and auto data save (user-defined auto log time interval)
- High-speed USB with a free data download software
- No warm-up time
- Auto backlight
- Self-calibration
- User-defined excess limit warning
- Optional RH/T sensor probe
- CE certified

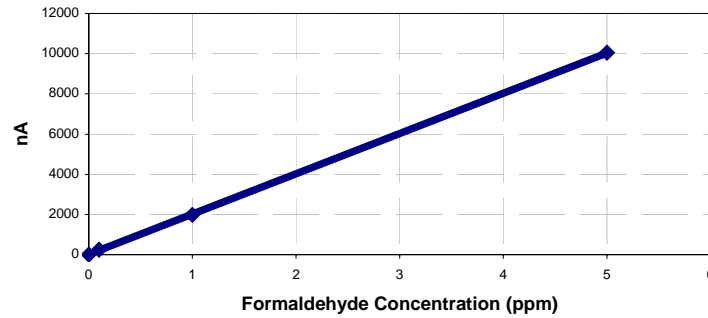
Specifications

Target Gas	Formaldehyde (HCHO) in air
Range	0 ~ 5ppm (0 ~ 20ppm available for special request)
Technology	Electrochemical sensor
Sampling Method	Pump and pointing sampling
Response Time	< 30 seconds
Resolution	0.01ppm
Display Unit	ppm
Memory	Up to 500 sets of data
Interface	USB for data downloading
Operating Environmental Conditions	Temperature: 5 ~ 40°C Humidity: <90%RH
Power	Rechargeable Lithium ion battery (3.7V/900mAh); AC adapter 100-240VACto5VDC/1A
Dimensions	80 (W) × 36 (D) × 150 (H) mm
Weight	About 200 grams

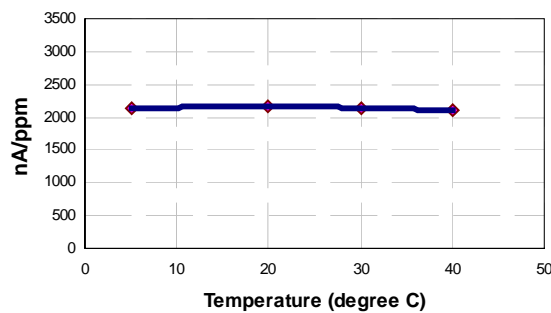


Sensor Performance Data

Linearity of HCHO Response



HCHO Sensor - Temperature Dependence of Response



Sensor Cross Sensitivity Data

Chemicals	Response (HCHO equivalent)
100 ppm Methanol	1ppm
10 ppm Ethanol	1ppm
25 ppm Isopropanol	0.5ppm
20 ppm Carbon Monoxide	1ppm
25 ppm Phenol	0.05ppm
100 ppm Acetaldehyde	0.5ppm
100 ppm H ₂	0.5ppm
50 ppm H ₂ S	3ppm
50 ppm SO ₂	0.5ppm
Methane, acetone, CO ₂ H ₂ O vapor have no response	