ALPHAPEC 5060 Lightweight Fourier Toxic Gas Detector

O Product overview

ALPHAPEC 5060 lightweight Fourier transform infrared detector mainly adopts Fourier transform infrared spectroscopy technology, combined with ultra-small volume, strong corrosion resistance, and highly reliable 3m optical path absorption cell, it can realize the detection of various ppm level chemical warfare agents (CWA) and Rapid and accurate detection of industrial toxic and harmful gases (TIC).

O Technical indicators

Parameter name	Performance parameter
Detection type	Chemical Agents: Sarin, Soman, Louie gas, mustard gas, AC, etc. Industrial toxic and harmful gases: CO, CO2, CH4, NH3, SF6, SO2, N2O, acetylene, vinyl chloride, ethanol, methanol, cyclohexane, isopropanol, acetaldehyde, acetone, benzyl alcohol, trichloroethylene, styrene, etc.
Lower detection limit	2ppm level @CO
Detection accuracy	< 5%F.S
Dimensions and weight	Dimensions (length x width x height): < 300mm x 185mm x 140mm Weight: ≤5.5kg (including battery)
Operating temperature	-20℃~45℃
Working environment humidity	0~65%RH
Response time	T90 < 30s
Intake flow	≤1.5L/min
Power supply interface	DC24V/5A, battery-powered, and supports power supply for vehicles, drones and other platforms
Communication interface	Serial communication

I. The light-weight Fourier transform infrared detector is highly integrated with internal optics, hardware and other modules, and has strong technical advantages.

II. The whole machine is highly integrated, powerful, and small in size and weight, and can be used in various platform detection scenarios such as man-portable, unmanned aerial vehicles, and unmanned robots;

III. The power consumption of the whole instrument is low, and the built-in 1860 lithium battery can continuously supply power for more than 4 hours at room temperature;

O Application area

The ALPHAPEC 5060 detector can be used in nuclear emergency response, safety and anti-terrorism, nuclear medicine, radiation medicine, radiation monitoring, accelerator facilities, radiation accidents, entry-exit inspection and quarantine and other fields.