

# AMMS-100

## Air Metal Monitoring System

According to the increasingly serious condition of air heavy metal pollution, FPI launched the new generation AMMS-100 Air Metal Monitoring Analyzer with many years' experience of environment and safety detection instruments development, and the newest requirements of customers at home and abroad.

This instrument can be widely used in environmental air quality monitoring places such as the industry pollution area, residential area, and background station, monitoring the heavy metal pollutants such as TSP, PM10 and lead, mercury, chromium, cadmium, arsenic in PM2.5.



### ■ Product principle

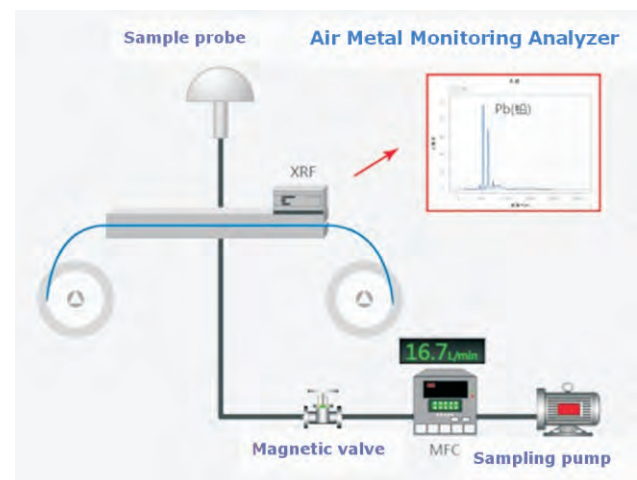
The X-ray fluorescence analysis method analyzing metal element content in the air filtering membrane is the method recommended by EPA.

The Instrument adopts precise and constant current sampler to make sample, precisely control the air volume of acquisition, and enriches heavy metal pollution in the air through the filtering membrane at the same time;

It adopts XRF (X-ray fluorescence) technology, to analyze heavy metal pollutant rapidly and non-destructively, and gets the metal pollutant information in the air.



Conventional air station monitoring



AMMS Analyzer principle diagram

## ■ Product Characteristics

- It can monitor 26 kinds of elements at the same time;
- Low detection limit: can reach ng/m magnitude;
- Nondestructive testing, the filtering samples can be preserved;
- Sample analysis time is programmable (10 minutes to 300 minutes)
- It can be combined with conventional air station and mobile monitoring car to become environment air quality integrated monitoring system, to realize the monitoring of heavy metal pollution.

## ■ Product Characteristics

Measuring principle	X-ray fluorescence method (refer EPA-IO3.3)
Main monitoring elements	Pb、Cd、Hg、As、Cr、Cu、Zn、Ni、Ba、Fe、Ag、Se、Br、Sb、Sn、Ti、Co、Mn、Zr、Rb、Mo、V、Sc、Pd、Ca、K、Ga、Cs kinds of elements.
Measuring range	(0~100) $\mu\text{g}/\text{m}^3$
Detection limit	Can reach ng/m magnitude(sampling time:2 hours, flow rate 16.7L/min)
Linearity	Related factors>0.98
Sampling and analysis time	Settable: (10~300)minutes
Instrument calibration	Daily automatic calibration
Filtering membrane replacement cycle	3 months
Flow rate error	$\pm 1\%$ F.S.
Size	444 x 430 x 520 mm (HxWxD)
Weight	about40 kg
Environment temperature range	(-20~50) $^{\circ}\text{C}$
Environment humidity range	(0%~90%) RH(no condensation dewdrop)
Environment pressure range	(86~116) kPa
Communication interface	RS232, RS485, Ethernet network
Power source	220(1 $\pm$ 10%) V AC, (50 $\pm$ 1) Hz, 600 W



**Service Hotline:400-7007-555**