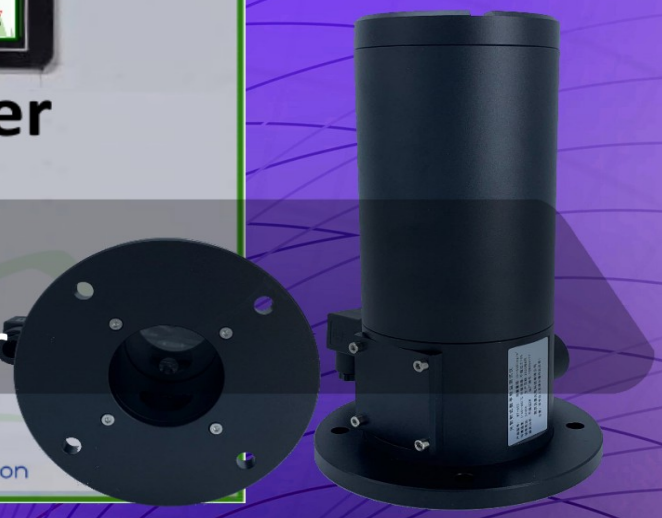
Arka Instruments

Online SPM Analyser



AI - 2000
Online SPM Analyser

Features

- Adopt laser backscattering principle, which can prevent the laser beam from swinging caused by uneven refractive index out of stack mechanical vibration and uneven gas temperature.
- Single-end installation without optical path alignment.
- The modulation of laser beam enable the system to significantly improve anti-interference ability.
- Low device power consumption, around 3W.

Specifications

Basic Parameters:

Detection principle	Laser back scattering method
Concentration range	(0 ~500) mg/m3 (normal), (0-10)g/m3 (customizable)
Measurable stack size	0.5m~15m
Sensitivity	1mg/m3
Indication error	≤±20%
Indication repeatability	10%
Human-machine interaction	IR remote control + LCD display screen
Laser	650nm, 7mW
Dimension	158mm×158mm×273mm (H*L*W)
Weight	3kg
Power	<3W

Input/Output:

Signal output	1* (4-20)mA, maximum load of 500Ω
Communication Interface	RS485 (optional)

Measurement Condition:

Ambient temperature	Temperature:-20°C~45°C
Ambient humidity	Relative humidity: 0-100%R.H. (non-condensing)
Power Supply	DC 24V±10%

Application

The product can be used in continuous monitoring of particulate matter emission. It can not only match with CEMS, but also be used separately or together with multiple dust monitors to form a set of dust monitoring network, sharing the same front end. The product can be widely applied in the following occasions.

- Power plants
- Steel works
- Cement plants
- Process control of dust-removal apparatus and other particle engineering

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