



**EZ320 NDIR**

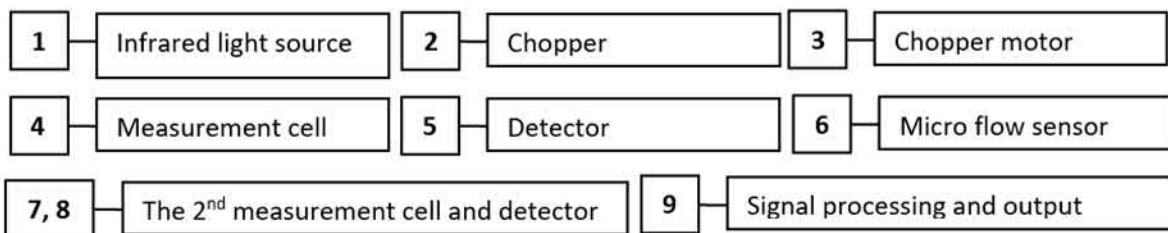
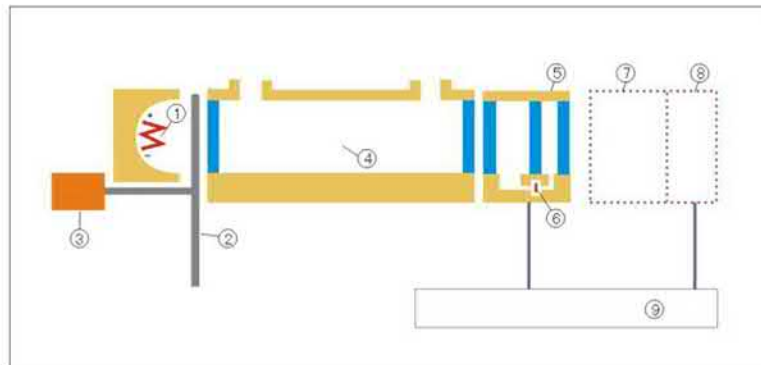
# Gas Analyzer

Based on NDIR

## INSTRUMENT OVERVIEW

The gas analyzers are based on NDIR, which measures simultaneous and continuous concentration of up to 5 gases, have excellent prolonged stability, compact size and simple operation. The sensors with low impedance has excellent noise resistance while with no moveable parts, is impervious to vibration and virtually unaffected by the interference of moisture.

## WORKING PRINCIPLE



The working principle is illustrated above. Infrared light goes through the chopper and then measurement cell. As molecules like SO<sub>2</sub>, NO, CO, CO<sub>2</sub> which are composed of heterogeneous atoms are absorptive to infrared light, so if the measurement cell has such gases, partial infrared light will be absorbed, those infrared light not absorbed go into the detector. The detector consists of front gas chamber, rear chamber, microflow sensor, and the front and rear gas chambers are filled with gas component to be measured. Under the influence of infrared light, the gas in the front and rear chamber will expand. Due to expansion differences, it will cause tiny flow between the front and rear gas chamber. After microflow sensors detect the flow, it will produce an AC voltage signal, gas concentration will be obtained after signal processed.

## TECHNICAL PARAMETERS

<b>Analyzer</b>	<b>Model No.</b>	EZ320
<b>Technical Index</b>	<b>Range</b>	SO <sub>2</sub> : 0-1000PPM, NO: 0-1000PPM (other on request)
	<b>Linearity error</b>	≤±2%F.S.
	<b>Repeatability</b>	≤1%
	<b>Span drift</b>	≤±1%F.S./half year
	<b>Zero drift</b>	≤±1%F.S./half year
	<b>Response time (T<sub>90</sub>)</b>	≤60s (related to working condition)
	<b>Maintenance period</b>	≤2 times/year, clean optical window
	<b>Calibration period</b>	≤2 times/year
<b>Interface Signal</b>	<b>Analog output</b>	4-20mA
	<b>Digital Output</b>	RS485
<b>Working Condition</b>	<b>Power</b>	230VAC ±10%
	<b>Purge gas</b>	0.3~0.8 MPa industrial N <sub>2</sub> , purification instruments air, etc.
	<b>Ambient temperature</b>	0 ~ 50°C

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