



Shanghai ENCEL Instruments Co.Ltd

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## **NDIR Type Infrared ONLYNE ANALYZER:**



### **EN-308: NDIR TYPE INFRARED GAS ANALYZER**

Measured component : CO、CO<sub>2</sub>、CH<sub>4</sub>、NO、SO<sub>2</sub>

Minimum range : 0~20×10<sup>-6</sup>(ppm)

Maximum range : 0~50% (>50% consulting with us)

Linearity error : ≤±1%FS



### **EN-308+O2:NDIR TYPE ANALYZER+PARAMAGNETIC O2**

Measured component : CO+ O<sub>2</sub>、CO<sub>2</sub>+ O<sub>2</sub>、CH<sub>4</sub>+ O<sub>2</sub>、NO+ O<sub>2</sub>、SO<sub>2</sub>+ O<sub>2</sub>

Minimum range : 0~20×10<sup>-6</sup>(ppm)

Maximum range : 0~50% (>50% consulting with us)

Linearity error : ≤±1%FS



### **EN-308(II)NDIR TYPE INFRARED GAS ANALYZER(Two compnents)**

Measured component : CO、CO<sub>2</sub>、CH<sub>4</sub>、NO、SO<sub>2</sub> (any two components)

Minimum range : 0~20×10<sup>-6</sup>(ppm)

Maximum range : 0~50% (>50% consulting with us)

Linearity error : ≤±1%FS



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### **EN-308(II+O2)NDIR TYPE INFRARED GAS ANALYZER (Two components+ O2)**

Measured component : CO、CO<sub>2</sub>、CH<sub>4</sub>、NO、SO<sub>2</sub> (any two components) + O<sub>2</sub>

Minimum range : 0~20×10<sup>-6</sup>(ppm)

Maximum range : 0~50% (>50% consulting with us)

Linearity error : ≤±1%FS



### **EN3000-GXH Explosion-proof Gas Analyzer(IR)**

Measuring principle : Non-dispersion type infrared

Measured component : CO、CO<sub>2</sub>、CH<sub>4</sub>、NO、SO<sub>2</sub>

Minimum range : 0~20×10<sup>-6</sup>(ppm)

Maximum range : 0~50% (>50% consulting with us)

Linearity error : ≤±1%FS



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## Thermal Conductivity:



### EN-600 THERMAL CONDUCTIVITY GAS ANALYZER

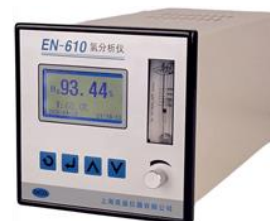
Measuring principle : Thermal-conductivity

Measured component : H<sub>2</sub>, Ar, CO<sub>2</sub> and any other two components mixed gas

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$ , Resolution : 0.01%



### EN-610 HYDROGEN ANALYZER

Measuring principle : Thermal-conductivity

Measured component : H<sub>2</sub>

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$ , Resolution : 0.01%



### EN-640 Sulfur dioxide analyzer

Measured component : SO<sub>2</sub>

Range:(0~15)%

Accuracy: 2.5%FS

Resolution : 0.01%



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## Paramagnetic Oxygen:



### EN-560 PARAMAGNETIC OXYGEN ANALYZER

Measuring principle : Paramagnetism-thermal sensitivity

Measured component : O<sub>2</sub>

Measuring range : 80~100%, 97~100%

Linearity error :  $\leq \pm 2\%FS$  (80~100%),  $\leq \pm 5\%FS$  (97~100%)

Resolution : 0.01%



### EN1000-CY PARAMAGNETIC OXYGEN ANALYZER

Measuring principle : Paramagnetism-thermal sensitivity

Measured component : O<sub>2</sub>

Measuring range : 80~100%, 97~100%

Linearity error :  $\leq \pm 2\%FS$  (80~100%),  $\leq \pm 5\%FS$  (97~100%)

Resolution : 0.01%



### EN3000-CY Explosion-proof Gas Analyzer

Measuring principle : Paramagnetism-thermal sensitivity

Measured component : O<sub>2</sub>

Measuring range : 0~100% (Arbitrary range option between 0~100%)

Linearity error :  $\leq \pm 1\%FS$

Resolution : 0.01%



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## Hydrogen Analyzer:



### EN-610 HYDROGEN ANALYZER

Measuring principle : Thermal-conductivity

Measured component : H<sub>2</sub>

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$ , Resolution : 0.01%



### EN1000-RQD THERMAL CONDUCTIVITY GAS ANALYZER

Measuring principle : Thermal-conductivity

Measured component : H<sub>2</sub>, Ar, CO<sub>2</sub> and any other two components mixed gas

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$ , Resolution : 0.01%



### EN3000-RQD Explosion-proof Gas Analyzer(TCD)

Measured component : H<sub>2</sub>, Ar, CO<sub>2</sub>

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 2\%FS$

Resolution : 0.01%



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## Sulphuric Acid online analyzer :



### EN-701 Acid concentration analyzer

Measured component :  $\text{H}_2\text{SO}_4$

Range : (0~10)%、(70~80)%、(96~99)%、(103.5~106.5)%

Accuracy: 5%FS

Resolution : 0.01%



### EN-730 Acid concentration analyzer

Measured component :  $\text{H}_2\text{SO}_4$

Range:(91~95)%

Accuracy: 5%FS

Resolution : 0.01%



### EN-640 Sulfur dioxide analyzer

Measured component :  $\text{SO}_2$

Range:(0~15)%

Accuracy: 2.5%FS

Resolution : 0.01%



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## Explosion-proof online analyzer:



### **EN-500Ex (ppm O<sub>2</sub>)Explosion - proof Trace Oxygen Analyzer**

Measured component : O<sub>2</sub>

Measuring range : 0~1000ppm

Linearity error :  $\leq \pm 2\%FS (>10 \text{ ppm})$ ,  $\leq \pm 5\%FS (\leq 10 \text{ ppm})$  0 ppm

Resolution : 0.01ppm

### **EN-500Ex Explosion - proof Oxygen Analyzer**

Measured component : O<sub>2</sub>

Measuring range : 0~1%/ 5%/ 25%

Linearity error :  $\leq \pm 1\%FS (>1\%)$  ,  $\leq \pm 5\%FS (1\% \text{ range})$

Resolution : 0.01%

### **EN-600Ex Explosion - proof Hydrogen Analyzer**

Measuring principle : Thermal-conductivity

Measured component : H<sub>2</sub>, Ar, CO<sub>2</sub> and any other two components mixed gas

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$ , Resolution : 0.01%



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### **EN3000-CY Explosion-proof Gas Analyzer(Paramagnetic oxygen)**

Measuring principle : Paramagnetism-thermal sensitivity  
Measured component : O<sub>2</sub>  
Measuring range : 0~100% (Arbitrary range option between 0~100%)  
Linearity error :  $\leq \pm 1\%FS$   
Resolution : 0.01%

### **EN3000-DP Explosion-proof Gas Analyzer(Dewpoint)**

Measuring principle : Capacitive dew point sensor  
Measured component : dew point (°C) or absolute humidity (ppm)  
Measuring range : -100.0°C~+20.0°C dp  
Accuracy :  $\pm 2^{\circ}Cdp$   
Resolution : 0.1 °C

### **EN3000-RQD Explosion-proof Gas Analyzer(TCD)**

Measured component : H<sub>2</sub>, Ar, CO<sub>2</sub>  
Maximum range : 0~100% (Arbitrary range option between 0~100%)  
Minimum range : 0~1%  
Linearity error :  $\leq \pm 2\%FS$   
Resolution : 0.01%

### **EN3000-GXH Explosion-proof Gas Analyzer(IR)**

Measuring principle : Non-dispersion type infrared  
Measured component : CO, CO<sub>2</sub>, CH<sub>4</sub>, NO, SO<sub>2</sub>  
Minimum range : 0~20×10<sup>-6</sup>(ppm)  
Maximum range : 0~50% (>50% consulting with us)  
Linearity error :  $\leq \pm 1\%FS$





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## Portable Analyzer:



### EN-500 PORTABLE TRACE OXYGEN ANALYZER

Measured component : O<sub>2</sub>

Measuring range : 0~1000ppm

Linearity error :  $\leq \pm 2\%FS (> 10 \text{ ppm})$ ,  $\leq \pm 5\%FS (\leq 10 \text{ ppm})$  0 ppm)

Resolution : 0.01ppm



### EN-510 PORTABLE OXYGEN ANALYZER

Measured component : O<sub>2</sub>

Measuring range : : 0~1%, 0~5%, 0~25%, 0~100% (auto-ranging)

Linearity  $\leq \pm 1\%FS (> 1\%)$  ,  $\leq \pm 5\%FS (1\% \text{ range})$

Resolution : 0.01%



### EN-610 PORTABLE HYDROGEN ANALYZER

Measured component : H<sub>2</sub>

Maximum range : 0~100% (Arbitrary range option between 0~100%)

Minimum range : 0~1%

Linearity error :  $\leq \pm 1.5\%FS$

Resolution : 0.01%



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## EN-7625 PORTABLE DEWPOINT ANALYZER

Measuring principle : Capacitive dew point sensor

Measured component : dew point (°C) or absolute humidity (ppm)

Measuring range : -80.0°C~+20.0°C dp

Accuracy :  $\pm 2^{\circ}\text{Cdp}$

Resolution : 0.1 °C



## M-900 COMBUSTION ANALYZER

Temperature(T):0-600°C

Oxygen (O<sub>2</sub>) :0-25%

Carbon monoxide (CO): 0-4000ppm

Carbon dioxide (CO<sub>2</sub>) : 0-20% (Calculated)

excess air and losses( $\alpha$ ):1-20 (Calculated)



## M-9000 PORTABLE COMBUSTION ANALYZER

measured : Flue Temperature (T), Oxygen (O<sub>2</sub>), Carbon monoxide (CO)

Nitric oxide , (NO) Nitrogen dioxide (NO<sub>2</sub>), Sulphur dioxide (SO<sub>2</sub>)

calculated: Micro-pressure ( $\Delta P$ ), Nitrogen oxide (NO<sub>x</sub>)

Carbon dioxide (CO<sub>2</sub>) , excess air and losses( $\alpha$ )

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