

MULTI-ELEMENT XRF ANALYZER KL6800



Multi-Element XRF Analyzer KL6800 is a new type of computerized desktop analyzer, specially developed for the cement building materials industry. Using advanced physical measurement method, it can accurately and quickly (180 seconds) analyze the content of CaO , Fe_2O_3 , SiO_2 , Al_2O_3 , SO_3 in raw material, clinker, and cement, and automatically calculate KH, SM, IM.

The instrument can be used independently, and can also sent the analysis results to the computer batching system through the RS232 serial communication port.

APPLICATION

- ⊙ It is mainly used to determine the $\text{CaO}\%$, $\text{Fe}_2\text{O}_3\%$, $\text{SiO}_2\%$, $\text{Al}_2\text{O}_3\%$ in raw material and clinker, and quickly provide analytical data for raw material ratio and clinker rate value.
- ⊙ It is used to determine $\text{CaO}\%$ and $\text{SO}_3\%$ in cement, and to provide analytical data for admixture content.
- ⊙ Analyze $\text{CaO}\%$, $\text{Fe}_2\text{O}_3\%$, $\text{SiO}_2\%$, $\text{Al}_2\text{O}_3\%$, $\text{SO}_3\%$ in limestone, clay, gypsum and other materials, and provide quality data for incoming raw materials.
- ⊙ Directly connected with the computer control system of raw material rate value batching through the RS232 serial communication port.
- ⊙ Analyze $\text{CaO}\%$, $\text{Fe}_2\text{O}_3\%$, $\text{SiO}_2\%$, $\text{Al}_2\text{O}_3\%$, $\text{SO}_3\%$ in other materials, such as kaolin, refractory materials, etc.



SINCE 2006

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FEATURES

- ⊙ Integrated desktop instrument, compact structure, beautiful appearance.
- ⊙ Large-screen LCD display, easy to use.
- ⊙ Short analysis time: CaO%, Fe₂O₃%, SiO₂%, Al₂O₃%, SO₃% in the material are measured in 180 seconds.
- ⊙ Samples are not destroyed during analysis, and samples can be tested repeatedly.
- ⊙ No chemical reagents, no three wastes, no radioactive sources, low power consumption, in line with environmental protection, energy saving, radiation safety requirements.
- ⊙ The data storage space is large, and the content results and instrument self-test data can be queried.
- ⊙ Strong adaptability to the environment and high reliability.

TECHNICAL SPECIFICATIONS

Analysis range	CaO、Fe ₂ O ₃ 、SiO ₂ 、Al ₂ O ₃ 、SO ₃ : 0.01%~100%
Analysis width	CaO、Fe ₂ O ₃ 、SiO ₂ 、Al ₂ O ₃ 、SO ₃ : ≤5%, for example, in raw material, CaO%: 39.50%~44.50%, Fe ₂ O ₃ %.: 0.01%~5.00%, SiO ₂ %.: 10.00%~15.00%, Al ₂ O ₃ %.: .00%~5.00%, selected by calibration working curve.
Analysis accuracy	Standard deviation S _{CaO} ≤0.10%; S _{Fe2O3} ≤ 0.05%; S _{SiO2} ≤0.07%; S _{Al2O3} ≤0.07%; S _{SO3} ≤0.05%
Allowable error	ΔCaO %≤0.25; ΔFe ₂ O ₃ %≤0.10%; ΔSiO ₂ %≤0.20%; ΔAl ₂ O ₃ %≤0.20%; ΔSO ₃ %≤0.15%
Analysis time	n * 90 seconds (n is a natural number from 1 to 5, usually n = 2)
Stability	Absolute drift: ΔCaO% ≤0.15%; ΔFe ₂ O ₃ % ≤0.10%; ΔSiO ₂ % ≤0.10%; ΔAl ₂ O ₃ % ≤0.10%; ΔSO ₃ % ≤0.10%
Working condition	Power supply: AC200V~240V, 50Hz; ambient temperature: 5~40℃; relative humidity: ≤85%(30℃)
Overall power consumption	≤30W
Dimensions and weight	468mm * 368mm * 136mm, 13.8Kg