DF-IGAX XRF IRON GRADE ANALYZER

DFMC

Company Profile

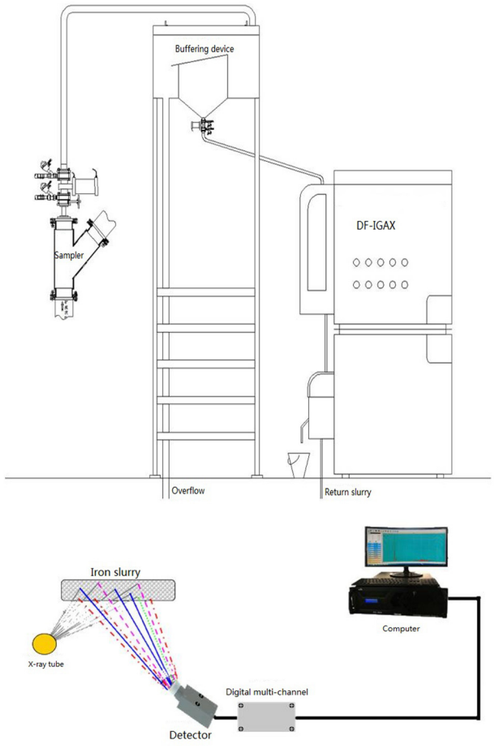
Since found in 1996, DFMC has always dedicated to industrial online measuring instrument and process control system. With more than 20 years of experiences in mining industry, DFMC has tackled many technical challenges in mineral processing area, presenting 72 kinds of online detection instruments and possessing with 48 invention patents. Our applications cover elemental composition detection, particle size detection, density detection and other 12 categories in

Product Overview

DF-IGAX XRF Iron Grade Analyzer is an intelligent instrument for detection of iron ore slurry grade during mineral processing. It adopts advanced X-ray online detection technology and conducts non-contact measurement. DF-IGAX also has strong applicability to on-site process environment, which enables stable and reliable operation for a long time and maintains high detection accuracy.

Principle

DF-IGAX is consists of a sampling system, a buffering device and the analyzer itself. Iron slurry samples will be taken from production process and then delivered to analyzer for analysis. The high energy X-ray tube will inspire the Fe atoms within the slurry and create characteristic energy spectrum. The content of Fe can be analyzed through EDXRF method.



Feature

- Non-radioactive: The traditional method of measuring Fe content within iron slurry is DUET which requires radioactive source Am-241 and Cs-137. In order to realize non-radioactive operation, DF-IGAX uses a small volume high energy X-ray tube instead
- High accuracy: DFMC has accumulated hundreds of slurry measurement model in our database to make DF-IGAX suits for all kinds of customer requirement with top-class performance.
- Reliable & Stable: DF-IGAX uses high resolution, high count rate semiconductor detector to control the repeatability and long-term stability of X-ray
- Easy for installation: Modular design of DF-IGAX enables strong flexibility and adaptability for different sites.
- Long lifetime: Non-contact measurement (X-ray tube and detector) ensures low maintenance cost and longer lifetime of DF-IGAX.

Parameters

Basic Parameters	
Index	Iron slurry grade
Time	1 min (adjustable)
Type	Raw ore, concentrate and tail-
Accuracy	0.5 - 1% (typi-
Weight	500Kg
Installation Demand	
Space	2300 2100 2700mm
Operation area	3000 3000mm
Grounding	<4
Power	220VAC±10%, 50Hz±5%, 2Kw
Flushing water	Clean, no suspensions, 0.4MPa – 0.8MPa
Inflating air	Clean, constant, 0.4MPa – 0.8MPa
Flow rate	5 -8m3/h
Humidity	95%, non condensing
Temperature	-20 - 45 C
Material	Constant
Concentration	10 - 70%
Network	5M Internet or better

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