

DENSITY GAUGE

Model SS200



Nucleonic Density
Measurement of
Slurries, Sewerage Sludge
And Liquids

- Fully digital operation
- Automatic gain stabilisation
- Low source activity
- Scintillation detector
- Rugged construction
- IP67
- Repeatability 0.0001 SG



SIStec

SPECIFICATIONS

Principle Components

Source Holder	Lead filled sealed ductile steel or 316 Stainless Steel Shielding meets or exceeds internationally accepted safety standards Rotary shutter with standardising absorber incorporated
Radioisotope	Double encapsulated Cs 137 or Co 60
Detector Housing	IP67 Rugged steel enclosure or 316 Stainless Steel Connects to Control Unit with instrumentation cable
Scintillation Detector	Sodium Iodide with integral photo-multiplier
Control Unit	IP65 Mild Steel or IP 66 316 Stainless Steel housing Switch mode power supply 88 to 264 Vac or 24Vdc No loss of data with power off Decay clock continues with power off Data transmitted by RS422 link May be up to 1000 metres from detector module Isolated 4-20ma current output loops (1.5KV) Comms options: Modbus RTU, Profibus DP Device Net, Hart Protocol, Foundation Fieldbus

Operation

Temperature Drift	± 0.00003 SG units per degree Celsius
Repeatability	± 0.0001 SG units typical ± 0.0002 SG units maximum
Operating Temperature	0 to 60 ° C
Vibration	2g at 100 Hz
Humidity	5-95 % RH, non condensing
Inputs	4-20ma from volume flow gauge or temperature sensor
Outputs	Two 4-20ma current loops for SG, per cent solids, mass flow or temperature corrected SG. Mass flow integrator with potential free make contacts one pulse per tonne
Mass (Kg)	Source Holder - 34 Kg Detector Unit - 20 Kg Control Unit - 6 Kg

Manufactured by

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