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Scientific Instrument Designs

Geo-Fox equipment for mud logging ...

Total Hydrocarbon Analyzer + Cuttings Gas Analyzer

This small instrument combines the functionality of a total hydrocarbon analyzer (THA) and a cuttings gas analyzer. The THA uses a flame ionization detector (FID). This design provides key features for well logging applications such as : ease of use, wide measuring range, quick response time, WITS data stream ... It makes a great tool for the mud logger.

Features:

Calibration error check. Direct WITS serial output, no additional software/hardware required.
Flame out detection. Hydrogen shutoff safety valve.
Programmable alarm. Detection of sample line blockage.
Cuttings gas analysis method (Just add a Blender).
Internal sampling pump (can be bypassed).
Configuration via any RS Terminal.

Specifications:

Detector: FID
Dynamic range: 10ppm to 100% methane
Resolution: 10ppm
Rising response time: < 5 sec
Report rate: 10 per sec
Siren: 80db
Dimensions: 8"x5"x12" deep
Weight: 5 pounds

Requirements:

Hydrogen: 20cc/min, 50PSI
Air: 100cc/min, 50PSI (HC & moisture free)
Power: 110/220V 50/60Hz 25W

