

Product Data Sheet

Tracerco™ Mud Monitor



Gamma ray measurement

During drilling operations, a radioactive source is often used to log reservoir properties. Incidents have occurred where the radioactive source has been damaged by the drill bit, resulting in contamination of the drilling mud and the mud tank. This can lead to potential radiation exposure for workers.

The Tracerco™ mud monitor is used to confirm radioactive source integrity during logging whilst drilling (LWD) operations and to protect personnel from any unnecessary radiation exposure.

Benefits

- Intrinsically safe – no need for a hot work permit
- Provides an analogue output proportional to radiation intensity
- Continuously monitors detector condition and provides an alarm in the event of failure
- Unaffected by hostile processes
- Easy to install
- Highly reliable with a fast response
- Radiation monitoring via a standalone alarm unit, or integrated into a DCS or SCADA system

Markets

- Oil and Gas
- Mining



Tracerco™ Mud Monitor

PRI 150-A-3 Detector	
Power supply	Powered by the T209 Stand Alone Alarm Unit
Operating temperature	-40°C to +70°C (-40°F to +158°F)
Environmental sealing	Designed to conform to IP 67 IEC 144
Cable entry	Integrated connector or cable gland option
Casing dimensions	Length - 510mm. Diameter - body 63.5mm (top flange ~85mm dia.)
Material	316L stainless steel
Hazardous area certification	Complies with the ATEX code II 1 G and equipment code Ex ia IIC T4 Ga. Certificate No. Baseefa12ATEX0194. (-55°C to +85°C) Suitable for - hazardous area zones 0, 1 and 2. IECEx BAS 12.0103
T209 Stand Alone Alarm Unit	
Power supply	110v – 250v 50/60 Hz
Power consumption	Typically 25 VA
Indicator/output	Audible and visual alarms. 4-20mA HART Signal - Serial output for logging/interrogation
Range	Typically 0-10 µSv/h 0-1 mRem/h or 0-9999 CPM
Alarms	Dual programmable high trip alarms
Operating temperature	0°C to +60°C (32°F to +140°F)
Mounting	IP55 desktop
S A 12/2 Integrated Calibration Unit	
Power supply	110v – 250v 50/60 Hz
Power consumption	Typically 20 VA
Indicator/output	4-20mA HART Signal
Range	Typically 0-10 µSv/h 0-1 mRem/h
Alarms	4-20mA HART custom outputs available
Operating temperature	0°C to +50°C (32°F to +122°F)
Mounting	IP55 wall mounting
Standard compliance	The monitor meets the following EU directives: 2004/108/EC Electromagnetic Compatibility