

Depth Time Recorder (DTR005) – Intrinsically Safe

The intrinsically safe DTR005 records depth and tension with respect to time

Wireline memory logging tools record downhole data against time, however, in order to translate this acquired data into the depth domain, information detailing tool depth with respect to time is required. The DTR005 records the depth and tension of the tools being conveyed as measured at surface, also with respect to time. By matching and merging together the time-based tool data with the time-based depth data, a log of tool data with respect to depth is created.

The DTR005 records measured depth and other surface signals such as tension, with respect to time. It is connected to the coiled tubing or wireline cable encoder. This model has an intrinsically safe classification making it suitable for use in flammable gas (Zones 0, 1 and 2) environments where sealed spark-proof electrical equipment is required.

The DTR005 has push button controls and a backlit LCD to show several parameters including depth, tension, and line speed. Connections for a shaft encoder and up to four (4) analogue data channels are also provided. Data is recorded against time using an internal non-volatile real-time clock, and this has its own long-life internal battery. Options are selected from a control menu by the operator where parameters such as, depth, measuring wheel circumference, analogue calibrations, and depth/tension alarms can be configured. The unit is powered from four (4) D-size batteries (Duracell Procell MN1300 Alkaline 'D'-Type, or Energizer Industrial MN1300 Alkaline 'D'-Type). These are the only batteries certified for use with this product.

Features

- Intrinsically safe time based depth recorder
- Record time based analogue signals
- USB/RS232 download to PC
- Backlight for night time operations
- Suitable for coil tubing or slick line operations
- Use for all memory cased hole logging services
- Records data in imperial or metric units
- Battery powered
- Zones 1 and 2 rated without protective case
- Zones 0, 1 and 2 rated when inside protective case
- IECEx and ATEX certified:
 - IECEx BAS 09.0155X
 - Baseefa09ATEX0329X



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DTR005 Depth Time Recorder IS-ATEX

Specifications		
Height	3.93 in.	100 mm
Length	9.44 in.	240 mm
Width	7.48 in.	190 mm
Weight	10.9 lbs	4.75 kg
Display	240 x 128 pixel monochrome with backlight	
Battery Life	In excess of 100 hours	
Environmental	IP65	
Analogue Channels	2 x 4-20mA, 2 x 0-5V	
Memory Size	8MB	
Software	Sondex MEMLOG	
PC Download	RS232/USB	
Memory Capacity	Up to 460 hrs of depth only, or 200 hr for depth + 3 analogue signals	
Encoder Interface	DIN 19234 Type	
Sample Rate	1 Second	



Ex ia IIC T4 Gb (-20°C ≤ Ta ≤ +40°C)

⊕ II 2G

Operated without the protective case the DTR005 is certified for use in explosive atmosphere Zones 1 and 2.



Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +40°C)

⊕ II 1G

Operated in its protective case the DTR005 is certified for use in explosive atmosphere Zones 0, 1 and 2.

GE Oil & Gas
 Building X107, Range Road
 Cody Technology Park
 Farnborough
 GU14 0FG
 UK

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