

Depth Time Recorder (DTR)

Memory-based logging tools record their data against time. To provide a log in a standard format it is necessary to also record the measured depth against time, then match and merge together the two time-based data sets resulting in a log that has curve data against depth.

Description

The DTR is used to record measured depth—and other surface signals such as tension—against time when the tools are deployed in the well. It is connected to the coil tubing or cable encoder. The DTR has push button controls and a backlit LCD to display several parameters, including depth, tension, and line speed. Connections for a shaft encoder and up to four analogue data channels are also provided.

Data is recorded against time using an internal non-volatile real-time clock; this has its own long life internal battery. DTR options are selected from a control menu by the operator—inputs such as depth measuring wheel circumference, analogue calibrations, and depth/tension alarms can be entered. The unit can be powered from internal batteries or external mains and DC.

Features

- Time-based depth recorder
- Use for all memory cased hole logging services
- Record time-based analogue signals
- Intrinsically safe version available
- On/off switch, backlight switch and four push button controls
- Records data in imperial or metric units
- Rechargeable and non-rechargeable internal batteries
- RS232 download to PC
- Suitable for coil tubing or slickline operations



Depth Time Recorder (DTR)

Specifications	
Height	3.93 in. (100 mm)
Length	9.44 in. (240 mm)
Width	7.48 in. (190 mm)
Weight (with batteries)	10.9 lb (4.95 kg)
Display	240 x 128 pixel monochrome with backlight
Internal power	4x D size Duracell™, 100+ hour life
	Rechargeable 10V lead acid battery, 40+ hour life
External power	10-24V DC: 100-250V AC @ 47-63 Hz
Environmental	IP65
Analogue channels	2x 4-20 mA; 2x 0-5V
Memory size	8 MB
Memory capacity	Up to 460 Hrs of depth only or 200 hrs depth + 3 analogue signals
PC download	19,200 or 9,600 baud RS232
Software	Sondex MEMLOG and Ultrawire MEMLOG
Encoder interface	Bi-phase 5-12V and DIN 19234 type
Sample rate	1 second



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