

ER-SMLT-01 Low Cost Singleshot & MultiShot Inclinometer



Introduction

Low Cost Singleshot & MultiShot Inclinometer is used for measuring the inclination angle, azimuth angle, orientation of magnetic operating face and orientation of high side operating face of at the end of the drilling hole or a specific position while drilling.

It is widely applied for survey of well-hole drilling in the fields of petroleum, coal mine, irrigation establishment.

Features

1.For various operational purposes:

Satisfying various survey purposes either for suspending measurement or self-floating measurement once equipped with different external protectors

2.High precision and reliability:

As the key part of inclinometer, acceleration sensor with a shockproof accelerometer have characteristics of high linearity, little temperature drifting and good recurrence, etc.

3.Power-off protection:

Power failure caused by shakes or pressures would not result in operational disruption or data loss.

4.Dynamic performance:

Excellent data collecting and processing in either dynamic or static performance.

5.Shock and impact-resistance:

External multi-vibrate-resist buffer, both radial and axial.

6.Low temperature environment suitable:

Normal performance at -40°C

7.Deep-well measuring:

Equipped with heat insulation protector, normal working at 250°C , under 125MPa

Specification

Diameter: $\Phi 32$ and $\Phi 27$

Inclination: $0\sim 180^{\circ}\pm 0.2^{\circ}$

Azimuth: $0\sim 360^{\circ}\pm 1.0^{\circ}$ (Well inclination $\geq 6^{\circ}$)

High side operating face: $0\sim 360^{\circ}\pm 0.5^{\circ}$ (Well inclination $\geq 6^{\circ}$)

Magnetic operating face: $0\sim 360^{\circ}\pm 1.0^{\circ}$ (Well inclination $\leq 8^{\circ}$)

Delay Range: 1~99min, minimum 1min;

Interval Range: 1~99sec, minimum 1sec (only for multi-shot)

Max. sampling: 3600 points (only for multi-shot)

Continuous working time: min 20 hrs (only for multi-shot)

Shock resistance: $\leq 4.5\text{g}$, 10~100Hz,

Impact resistance: $\leq 2000\text{g}$, 0.5ms

Voltage: DC6V~DC8V

Current : under DC5V, stand-by condition \leq 30mA, data-collecting \leq 150mA

Temperature:-40 $^{\circ}$ C~125 $^{\circ}$ C(max. 250 $^{\circ}$ C with heat insulation protector)

Rechargeable battery

For single shot

Voltage output: DC7.2V.

Electricity output: \geq 500mAh

Working Temperature: -40~125 $^{\circ}$ C

Charge or discharge times: \geq 800 times

Charging time: 2~4H

Discharging time: \geq 30min

For multi shots

Voltage output: DC6V

Electricity output: \geq 2000mAh

Working Temperature: -40~125 $^{\circ}$ C

Charge or discharge times: \geq 800 times

Charging time: 16~17H

Discharging time: \geq 12h