

DigiTRAK® SE™

Directional Drilling Locating System



- Intuitive *target-in-the-box*® locating
- Left/right remote steering
- Roll/pitch update meter
- Roll offset
- Picture-driven menu

The DigiTrak® SE™ Directional Drilling Locating System is compatible* with existing DigiTrak® Mark Series and multi-function remote displays. It provides the latest 3D antenna technology and intuitive picture-driven menus in a sleek affordable package.

Left/right remote steering and off-track locating are available when walkover tracking is not possible. Roll offset is available when the 12 o'clock position of the drill head cannot be indexed to the transmitter.

An update meter on the receiver shows the data transfer rate, making it easy to see when you are in an area of interference or reaching the range limit of the transmitter.

Two transmitters are included with the system: the ST transmitter, with a depth range up to 50 ft (15.2 m), and the SES transmitter, with a depth range up to 15 ft (4.6 m). The transmitters have the same dimensions as other DigiTrak® transmitters, so tooling adjustments are not necessary for current DigiTrak® users.

*Compatibility is a function of local frequency licensing requirements.

SE™ Receiver Specifications

Model number.....	SER
Frequency.....	12 kHz
Power source.....	NiMH battery pack
Battery life.....	5–7 hr (approx.)
Battery charger.....	100–240 V AC, 50/60 Hz
Functions.....	Menu driven
Controls.....	Trigger switch
Graphic display.....	LCD
Audio output.....	Beeper
Telemetry range.....	1000 ft (305 m)**
Telemetry channels.....	4 channels
Operating temperature range.....	14°F to 149°F -10°C to 65°C
Accuracy.....	±5% absolute
Height.....	11 in. (27.94 cm)
Width.....	5.5 in. (13.97 cm)
Length.....	15 in. (38.1 cm)
Weight (with battery).....	7.7 lb (3.5 kg)

**Telemetry range can be increased using a DigiTrak® multi-function display with an external antenna.



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DigiTRAK[®] SE[™]

Transmitter Models

SES – Short-Range Transmitter



Length x Diameter	Depth Range	Frequency	Pitch Resolution	Battery Type	Operating Temperature	Weight
8 in. x 1.00 in. 20.32 cm x 2.54 cm	15 ft 4.6 m	12 kHz	1% or 1°	1 AA-cell alkaline (12 hours awake; 200 hours sleep)	-4 to 180°F -20 to 82°C	8.4 oz 240 g

ST – Standard-Range Transmitter

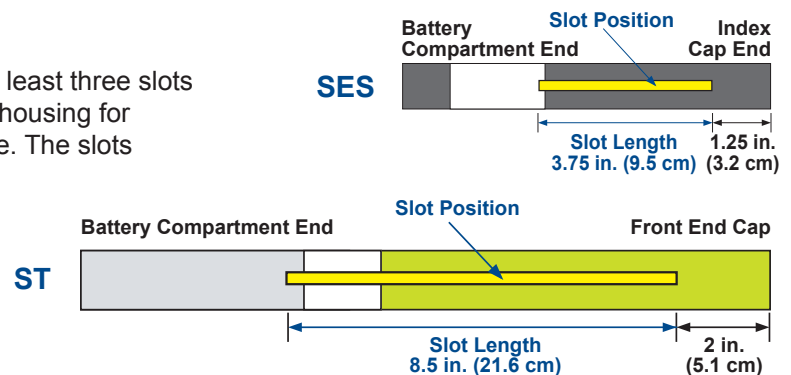


Length x Diameter	Depth Range	Frequency	Pitch Resolution	Battery Type	Operating Temperature	Weight
15 in. x 1.25 in. 38.1 cm x 3.175 cm	50 ft 15.24 m	12 kHz	1% or 1°	2 C-cell alkaline (10 hours awake; 100 hours sleep) or 1 SuperCell [™] (40 hours awake; 300 hours sleep)	-4 to 220°F -20 to 104°C	1.4 lb 635 g

Battery-operated transmitters enter sleep mode after 15 minutes of inactivity.

Housing Requirements

DCI's SE[™] transmitters require housings with at least three slots equally spaced around the circumference of the housing for optimal signal emission and maximum battery life. The slots must be at least 1/16 or 0.0625 in. (1.6 mm) wide. All slot measurements should be taken from the inside of the housing. The position and length requirements of the housing slots are shown in the drawings on the right.



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