

DigiTrak® Data Sheet

Transmitters

DigiTrak transmitters are designed for installation in a drill head or reamer assembly for use during horizontal directional drilling applications. A wire wound ferrite rod emits a magnetic field with information about the position and environmental conditions of the transmitter encoded on the signal for detection by an above-ground locator (DigiTrak receiver). Transmitter powers on once a battery power source is supplied.

Environmental Specifications

Trade name	Model name	Part No.	Weight	Length	Diameter	Temperature
Falcon F2®	BTS	FT2S	0.6 lb. (272 g)	8 in.	1.0 in.	-4 to 180° F (-20 to 82° C)
Falcon F1™		FT1S				
Falcon F2®	BTW	FT1	1.7 lb. (771 g)	15 in. (38.1 cm)	1.25 in. (3.175 cm)	-4 to 220° F (-20 to 104° C)
Falcon F5®		FT2				
Falcon F5®	BTP	FT5p				
Falcon F5®	BTPL	FT5pL	2.00 lb. (907 g)	19 in. (48.26 cm)		
F Series™ Long Range	HDT	FX 12	1.7 lb. (771 g)	15 in. (38.1 cm)		
F Series Extended Range		FX 19				
F Series Cable	HDTL	FXL 12	2.00 lb. (907 g)	19 in. (48.26 cm)		
F Series Short Range	FC	FXL 19	2.35 lb. (1066 g)		-4 to 180° F (-20 to 82° C)	
F Series Short Range	FS	FC	9.6 oz. (272 g)	8 in. (20.3 cm)	1.00 in. (2.54 cm)	
DucTrak™ Long Range	DDT 12	DDT 12	7.2 oz. (204 g)	12 in. (30.48 cm)	0.875 in. (2.22 cm)	22 to 122° F (-5.6 to 104° C)
DucTrak Short Range	DDS 12	DDS 12	4 oz. (113 g)	6 in. (15.24 cm)		
F5® Long Range	HDT	F5X 18	1.7 lb. (771 g)	15 in. (38.1 cm)	1.25 in. (3.175 cm)	-4 to 220° F (-20 to 104° C)
		F5X 8				
		F5D 19/12				
		F5D 12/1.3				
F5 Long Range Fluid Pressure	FPT	F5Dp 12/1.3	1.65 lb. (748 g)			
F5 Extended Range Fluid Pressure		F5Dpx 19/12	1.95 lb. (885 g)	19 in. (48.26 cm)		
SE® Short Range	SES	SES	9.6 oz. (272 g)	8 in. (20.3 cm)		
SE Long Range	HDT	ST 12	1.7 lb. (771 g)	15 in. (38.1 cm)	1.25 in. (3.175 cm)	-4 to 220° F (-20 to 104° C)
F5 Steering Tool	SST5	SST5	3 lb. (1.4 kg)	24 in. (61 cm)		-4 to 131° F (-20 to 55° C)
F5 TensiTrak® Pullback and Pressure Monitoring System	TT5	TT5	32 lb. (14.5 kg)	19.6 in. (49.9 cm)	5.5 in. (14 cm)	2 to 104° F (35.6 to 40° C)

All weights given are for the transmitters themselves and not batteries or any additional accessories or packaging.

All DCI transmitters comply with IEC 61010-1:2010 – *Safety requirements for electrical equipment for measurement, control, and laboratory use with a 2000 m environmental altitude limit.*

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Power Specifications

Trade name	Model name	Part No.	Frequency	Max Radiated Power at 10 m	Operational		
					Voltage	Max Current	Battery Type
Falcon F2®	BTS	FT2S	4.5–45k kHz*	14.6 dBµA/m	1.2–4.2 V _{DC}	0.4 A	(1) 123 3V lithium
Falcon F1™		FT1S	9.0–13.5k kHz	-0.7 dBµA/m			
Falcon F2®	BTW	FT1		4.5–45k kHz*	20.8 dBµA/m	1.2–4.2 V _{DC}	1.75 A
Falcon F5®		FT2	30.8 dBµA/m				
Falcon F5®	BTP	FT5p	4.5–45k kHz*	31.0 dBµA/m	1.2–4.2 V _{DC}	1.75 A	DCI SuperCell battery
Falcon F5®	BTPL	FT5pL					
F Series Long Range	HDT	FX 12	12 kHz	26.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	C-cell alkaline batteries (2) or SAFT LSH14 batteries (2) or DCI SuperCell™ battery
		FX 19	19.2 kHz				
F Series Extended Range	HDTL	FXL 12	12 kHz	39.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	SAFT LSH14 batteries (2) or DCI SuperCell battery
		FXL 19	19.2 kHz				
F Series Cable	FC	FC	12 kHz	42.5 dBµA/m	9–28 V _{DC}	6 A	Cabled DC power source (automotive battery)
F Series Short Range	FS	FS	12 kHz	12 dBµA/m	1.1–1.6 V _{DC}	400 mA	AA-cell alkaline battery
DucTrak Long Range	DDT 12	DDT 12	12 kHz	39 dBµA/m	2.4–3 V _{DC}	130 mA	123 3V lithium battery
DucTrak Short Range	DDS 12	DDS 12	12 kHz	17.5 dBµA/m			
F5 Long Range	HDT	F5X 18	18.5 kHz	26.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	C-cell alkaline batteries (2) or SAFT LSH14 batteries (2) or DCI SuperCell battery
		F5X 8	8.4 kHz				
		F5D 19/12	19.2 or 12 kHz				
		F5D 12/1.3	12 and 1.3 kHz				
F5 Long Range Fluid Pressure	FPT	F5Dp 12/1.3	12 and 1.3 kHz	39.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	SAFT LSH14 batteries (2) or DCI SuperCell battery
		F5Dpx 19/12	19.2 or 12 kHz				
F5 Extended Range Fluid Pressure	FPTL	F5DLpx 19/12	19.2 or 12 kHz	39.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	SAFT LSH14 batteries (2) or DCI SuperCell battery
SE Short Range	SES	SES	12 kHz	12 dBµA/m	1.1–1.6 V _{DC}	400 mA	AA-cell alkaline battery
SE Long Range	HDT	ST 12	12 kHz	26.5 dBµA/m	1.7–7.2 V _{DC}	650 mA	C-cell alkaline batteries (2) or SAFT LSH14 batteries (2) or DCI SuperCell battery
F5 Short Steering Tool	SST5	SST5	12 kHz	36 dBµA/m	9–28 V _{DC}	6 A	Cabled DC power source (automotive battery)
F5 TensiTrak Pullback and Pressure Monitoring System	TT5	TT5	12 kHz	32 dBµA/m	2.7–4.8 V _{DC}	300 mA	D-cell Alkaline batteries (3) or DCI SuperCell battery with adapter

* Russian Frequencies: 9–45 kHz

DCI: THE BUSINESS OF HDD LOCATING



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