

TracMaster™ Pro & Lite

Multi-source Magnetic Pipeline Pig Location & Tracking System

620/720/770 Series



T.D. Williamson

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Description

The TracMaster™ Pro and TracMaster™ Lite are TD Williamson's expanded product offering to ensure you have the right tools for pipeline pig locating and tracking needs.

With sophisticated Digital Signal Processing (DSP) technology, the TracMaster Pro 770 tracks as many as eight (plus MFL) different transmitter frequencies simultaneously. [The 720 model tracks three frequencies (plus MFL).] The TracMaster Lite can track up to three transmitter frequencies.

Features

TracMaster Pro 720 & 770

Passage detection, pinpointing, and launch/receive verification of magnetic-flux leakage (MFL) inspection tools are a breeze with the TracMaster Pro's advance permanent magnet tracking and locating capabilities. Pigging activities are reported via a simple, graphic menu system and display that reveal the distinctive pulsing pattern of a

passing pig plus quick, precise locations of stationary pigs. This information is provided for on-site viewing and printed reports, and is transferrable to desktop PCs.

- Works with TDW's existing large and robust transmitter family and the new TracMaster Pro X-Series multi-frequency transmitters, as well as transmitters from competitive systems.
- Pig passages are organized by their GPS time and date and are stored until erased from the system's flash memory.
- Recorded passages can be viewed, printed, downloaded to PC, and plotted with Google Maps.
- USB port for easy downloading and organization of jobs.
- TracMaster Pro may be monitored and operated from a remote location on a laptop or PC via TracMaster Pro Remote Control application.

- Custom casing in water-resistant durable plastic and powder-coated aluminum, guaranteed to withstand the roughest pipeline conditions.
- Color graphics display operational temperature range of -4° to 158° F (-20° to 70° C). and -22° to 176° F (-30° to 80° C) in storage.

TracMaster Lite 620

A lower-cost, simpler alternative, the 620 model tracks up to three frequencies.

- Basic controls for configuring the system, including a single knob for adjusting reception sensitivity.
- Scrolling rows of LEDs instead of graphical interface.
- No MFL detection or Bluetooth/wireless communication capabilities.
- Optional remote antenna and remote signal light/flasher are available upon request.
- Fully-functional from -40° to +85° F. (-40° to 29° C). For extreme cold environments, the TracMaster Lite 620 may be ordered in a cold-weather lithium battery configuration.



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Data subject to change without notice.

Dimensions not for construction unless certified.

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Dimensions and Part Numbers

TracMaster™ Pig Tracker & Locator**620 Multi-frequency Pig Tracking & Locating System**

Description	Quantity	Part Number	Weight		Dimensions	
			Lb.	Kg.	in.	cm
TracMaster™ Lite 620 Kit	1	12332409	19	8.6	40x16.5x6.7	101x42x17
System includes:						
TracMaster Lite 620	1	12332377	2.8	1.27	26x8x8	71x20x20
Shoulder Strap for Receiver	1	12333968	0.4	0.2		
Carrying/Shipment Case	1	12332381	18.0	8.16		
User Guide	1	00-3795-0614				
AA-Cell Batteries (set of 6)	1	12334086	2	0.9		
Optional Remote Antenna for 620*	1	12332384				
Optional Remote Flasher*	1	12332383	2	0.9		

*Not included with kit; sold as optional accessory.

720 Multi-frequency Pig Tracking & Locating System

Description	Quantity	Part Number	Weight		Dimensions	
			Lb.	Kg.	in.	cm
TracMaster™ Pro 720 Kit	1	12332410	30	13.6	40x16.5x6.7	101x42x17
System includes:						
TracMaster Pro 720	1	12332378	8.4	3.81	26x8x8	71x20x20
Shoulder Strap for Receiver	1	12332380	0.4	0.2		
Carrying/Shipment Case	1	12332385	30	13.6		
User Guide	1	00-3795-0613				
D-Cell Batteries (set of 6)	1	12332926	2	0.9		
Optional Remote Flasher*	1	12332383	2	0.9		

*Not included with kit; sold as optional accessory.

770 Multi-frequency Pig Tracking & Locating System

Description	Quantity	Part Number	Weight		Dimensions	
			Lb.	Kg.	in.	cm
TracMaster™ Pro 770 Kit	1	12332411	30	13.6	40x16.5x6.7	101x42x17
System includes:						
TracMaster Pro 770	1	12332379	8.4	3.81	26x8x8	71x20x20
Shoulder Strap for Receiver	1	12332380	0.4	0.2		
Carrying/Shipment Case	1	12332385	30	13.6		
User Guide	1	00-3795-0613				
D-Cell Batteries (set of 6)	1	12332926	2	0.9		
Optional Remote Flasher*	1	12332383	2	0.9		

*Not included with kit; sold as optional accessory.



TracMaster™ Transmitters

T-Series Legacy Fixed-Frequency Transmitter Specifications

Model Name	Part Number	Pipe Size (inch)	Weight		Dimension	
			Lb.	Kg	in.	mm.
T0	00-7496-0019-00	6–12	2.0	0.9	7.56 x 1.63	192 x 41.3
T1A	00-7496-0048-00	8–28	4.0	1.8	10.19 x 2.00	258.8 x 50.8
T3	00-7496-0050-01	2–8	0.6	.27	6.30 x 0.875	160 x 22.23
T4	00-7496-0052-00	2–8	1.0	.45	3.06 x 1.38	76.2 x 35.25

Each Transmitter Set Includes: Stainless Steel Transmitter [rated up to 2500 psi / 172 bar], Knurled Hand Removable Cap, Removal Stainless Steel Flange Kit (where applicable), Set of Alkaline Batteries, Spare O-Rings.

Options Available Upon Request: Pressure Activation Kit [from 15–3,000 psi (1–207 bar)]; high pressure titanium transmitter [rated up to 7500 psi / 517 bar] for the T1A size. Transmitters may be custom programmed and/or equipped with lithium batteries to extend battery life.

Note: The range of transmitters varies by diameter and pipeline wall thickness. Transmitter battery life varies by model, type of batteries used, and pulse pattern emitted.

X-Series, Adjustable Frequency Transmitter Specifications

Model Name	Part Number	Pipe Size (inch)	Weight		Dimension		ATEX Version Available
			Lb.	Kg	in.	mm.	
X100-1N	12332358	2–8	0.6	0.27	3.06 x 1.38	77.7 x 35.1	No
X100-2N	12332359	3–10	0.6	0.27	3.35 x 1.00	85 x 25.3	No
X100-3N	12332362	4–12	0.6	0.27	4.54 x 1.00	115 x 25.3	No
X100-4N	12332363	6–12	1.0	0.45	5.73 x 1.00	145 x 25.3	No
X100-5N	12332364	6–14	1.0	0.45	6.92 x 1.00	175 x 25.3	No
X200-2AA	12332365	6–24	1.2	0.54	5.00 x 1.125	127.2 x 29	No
X200-3AA	12332366	8–28	1.2	0.54	7.07 x 1.125	179.5 x 29	No
X300-2C	12332367	6–24	3.0	1.36	5.77 x 1.74	146.5 x 44.2	Yes
X300-3C	12332368	8–28	4.0	1.81	7.74 x 1.74	196.6 x 44.2	Yes
X300-4C	12332369	12+	4.0	1.81	9.61 x 1.75	244 x 44.2	Yes
X300-5C	12332370	14+	5.0	2.26	11.54 x 1.74	393 x 44.2	Yes
X400-2D	12332371	6–24	6.0	2.72	6.7 x 2.50	171 x 63.5	Yes
X400-3D	12332372	8–28	7.0	3.17	9.01 x 2.50	230.5 x 63.5	Yes
X400-4D	12332373	12+	10.0	4.50	11.5 x 2.50	291.5 x 63.5	Yes
X400-5D	12332374	14+	11.0	4.98	13.84 x 2.50	351 x 63.5	Yes

*FieldLink
Programming
Transceiver 12332927

Each Transmitter Set Includes: Stainless Steel Transmitter [rated up to 2500 psi / 172 bar], Knurled Hand Removable Cap, Removal Stainless Steel Flange Kit (where applicable), Set of Alkaline Batteries, Spare O-Rings.

*The FieldLink USB Programming Transceiver (USB dongle) is required for all X-Series Transmitters in order to program patterns and control output power (must be ordered separately).

Other Options Available Upon Request: Pressure Activation Kit [from 15–3,000 psi (1–207 bar)]; high pressure titanium transmitter [rated up to 7500 psi / 517 bar] for the X100, X200, X300, and X400 sizes; Pressure switches and titanium transmitters can not be ATEX-rated.

Note: Transmission range of transmitters varies by pipeline diameter and wall thickness. Furthermore, the X-Series transmitters have user-programmable battery life versus output power programmability that further affects battery life and ranges. All X-Series transmitters have wireless programmability. Software and USB wireless communicates dongles (FieldLink) are sold separately.



TracMaster™ Pro & TracMaster™ Lite

Receiver Comparison Table

FEATURES	TracMaster Lite 620	TracMaster Pro 720	TracMaster Pro 770
Tracks any 22 Hz Legacy Transmitter	•	•	•
Tracks TracMaster Frequencies Beyond 22 Hz	•	•	•
Max Transmitter Frequencies Supported	3	3 + MFL	8 + MFL
Tracks and Locates MFL Magnetizers		•	•
Graphical User Interface		•	•
Remote Antenna Option Available	•		
Remote Passage Flasher Option Available	•	•	•
Remote Viewing via Bluetooth & PC Software		•	•
Remote Control via Bluetooth & PC Software		•	•
Pig Passage GPS Position & Data/Image Recording		•	•
Trackback to Previous Locations via GPS		•	•
Google Earth™ GPS Integration		•	•
LineStat Satellite Passage Notification Option Available	•	•	•
Ships in Pelican™ Carry/Shipment Case	•	•	•
Cold-Weather Operational to -40° Celsius (Option)	•		
Durable and Weatherproof	•	•	•