3M Dynatel Pipe/Cable Locators 2550X

3M™ Dynatel™ Locators 2550X Series are designed for the field professional. It features a lightweight design for excellent balance and ergonomics, large display with easy-to use interface, enhanced connectivity. Li-Ion battery with built-in charger. Internal GPS module.

3M™ Dynatel™ Locators 2550X-ID Series are integrated to include locating cables/pipes, locate EMS markers and read/write to 3M™ ID Markers for the field professional. It features a lightweight design for excellent balance and ergonomics, large display with easy-to use interface, enhanced connectivity, LiIon battery with built-in charger. Internal GPS module

The 3M™ Dynatel™ Locators 2550X Series is designed to equip a locate professional with the following technologies for underground locating and mapping:

- Receiver with Bluetooth® wireless technology.
- Integrated USB port is compatible with USB Type-C® Connector.
- Internal GPS that can be saved internally or directly to a memory stick that is compatible with USB Type-C connector.
- Multiple antennas for maximum locate capabilities.
- Large LCD display with image driven graphical interface.
- Integrated tone functions.
- Write/read/locate 3M™ iD Markers on iD capable units.
- Locate 3M™ Electronic Marker System (EMS) on iD capable units.
- 3-Watt or 12-Watt transmitter kits.

Physical Specifications

	Size (L x W x H)	Weight with batteries
Receiver	76.2 cm x 26.1 cm x 26.7 cm	2.2 kg
Transmitter	19.7 cm x 28.6 cm x 17.2 cm	2.4 kg (Alkaline) w/ 3M™ Rechargeable 12V Battery 2200RB and alkaline batteries: 4.2 kg

Environmental Specifications

Operating Environment	Outdoor; Indoor for charging and configuring with a PC
Operating Temperature	-20°C to 50°C
Storage Temperature	-20°C to 70°C
Regulatory	3M™ Dynatel™ Pipe/Cable Locators 2550X Series (FCC Part 15)
Environmental Standard	IP54
Maximum Altitude	6500 ft.

Receiver Electrical Specifications	
Power	Rechargeable battery pack (alkaline 8xAA size battery pack for backup)
Battery Life	8 hours typical
Charging Time	3 hours with 3A USB type-C™ connector AC adapter 15W *The unit will stop charging when unit temperature is 40° C or higher and shuts off at 50° C
Display	4.4" diagonal LCD (menu-driven GUI)
Speaker	0.25W
Headphone Jack	Standard mini phone jack (used along with USB type-C® adaptor)
Connectivity	Bluetooth® wireless technology - dual-mode Bluetooth 5.0. profiles support GAP, GATT, SPP USB port is compatible with USB Type-C connector
GPS Mapping	GPS Interface (internal, 3 m) CEP50 (autonomous position accuracy)
Gain Control	Manual and automatic
Weight w/Batteries	2.9 kg
Cable/Pipe Depth Accuracy3	±2% ± 2 in. (5 cm) for 0–60 in. (1.5 m) ±6% ± 2 in. (5 cm) for 60–120 in. (1.5–3.0 m) ±10% ± 2 in. (5 cm) for 120–180 in. (3.0 m–4.5 m
Cable/Pipe Depth Range	0–360 in. (0–914 cm)
Locate Modes	Trace View (Compares Peak and Null While Locating), Directional Peak, Directional Null (Provides 360° locate), Special Peak, Dual Peak
Frequencies for 3M™ Dynatel™ Locators 2550X Series	Active: 577 Hz,1 kHz, 8 kHz, 33 kHz, 82 kHz, 200 kHz Tone: 577 Hz and 200 kHz pulsing at 8 Hz
Passive Frequencies	15 – 30 kHz (LF), 31.5 kHz (CATV)
Power Frequencies for 50 Hz Locations	50 Hz, 50L (250 Hz), 50H (450 Hz)
Power Frequencies for 60 Hz Locations	60 Hz, 60L (300 Hz), 60H (540 Hz)
Rectified Power	100 Hz, 120 Hz
Auxiliary	512 Hz, 560 Hz, 640 Hz
Sonde Frequencies	512 Hz, 640 Hz, 8 kHz, 33 kHz
User Defined Frequencies	Four (50 Hz to 999 Hz)

Electronic Marker System (EMS) Specifications	
Marker Depth Accuracy[3]	+/- (10% + 5 cm) or +/- (10% + 2 in) up to specified depth of marker
Marker Locate Accuracy[4]	Peak signal is found directly over the electronic marker.
Marker Frequencies on iD Capable Receivers/Locators[5]	Telecom (TEL): 101.4 kHz Power US (PWR): 169.8 kHz5 Gas (GAS): 83.0 kHz Water (WTR): 145.7 kHz Wastewater (WW): 121.6 kHz Communication (COM): 77.0 kHz General Purpose/Reclaimed Water (GP): 66.35 kHz European Power (CE PWR): 134 kHz FTTH (101.4 kHz)
Path Marker Frequencies on iD Capable Receivers/Locators	Telecom (TEL): 48.8 kHz Power US (PWR): 34.9 kHz4 Gas (GAS): 53.9 kHz Water (WTR): 73.5 kHz Wastewater (WW): 41.4 kHz Reclaimed Water (GP): 44.9 kHz
Marker Read/Locate Range	Near-Surface 3 ft (0.9 m) Ball Marker 5 ft (1.5 m) Mid-Range 6 ft (1.8 m) Full-Range 8 ft (2.4 m)
Marker Write Range	Near-Surface 6 in (15 cm) Ball Marker 12 in (30 cm) Full-Range 24 in (61 cm)
Data Storage[6]	EMS-iD Read Records 512 EMS-iD Program Records 128 Cable Depth Records 512 Locate Records 512 Number of EMS-iD Templates: 75

Transmitter Electrical Specifications	
Output Voltage (Maximum)	70 Vrms
Output Protection	240 Vrms
Battery Quantity and Size	For Normal and High Output Power: 6 "C" size, Alkaline (LR14) For Maximum Output Power: 3M™ Rechargeable 12V Battery 2200RB, 12V-6AH, Sealed Maintenance-Free, Lead (Pb)-Acid Battery.
Typical Battery Life	Normal Output Power level: 50 hours High Output Power level: 10 hours Typical transmitter specified battery life (listed above) is increased by 40% when using the 3M Rechargeable 12V Battery 2200RB (12 volt). Using the 3M Rechargeable Battery 2200RB bypasses the alkaline batteries. Maximum Output Power level: 4 hours (Maximum Output Power level achieved using 3M Rechargeable Battery 2200RB.)
External DC Power	9-18V DC, 3A MAX
Rechargeable Battery Fuse	5 Amp / 32 V
Cigarette Lighter Adapter Cable Fuse	4 Amp/Fast Blow 250 V
2550X Output Power (in Direct Connect Mode)	Normal setting: 0.5 W High setting: 3 W @ 577 Hz, 1 kHz, 8 kHz, 33 kHz; 1 W @ 82 kHz, 200 kHz Maximum setting: 12 W @ 577 Hz, 1 kHz, 8 kHz; 10 W @ 33 kHz; 1 W @ 82 kHz, 200 kHz (with external DC power source)
2550X Frequencies: ActiveTone	Active: 577 Hz,1 kHz, 8 kHz, 33 kHz, 82 kHz, 200 kHz Tone: 577 Hz and 200 kHz pulsing at 8 Hz

[1] It's recommended to use the rechargeable battery pack. However, a battery holder and adapter are provided for using 8-AA size Alkaline batteries for backup, which would have reduced battery life.

[2] The battery life is specified for 3M Rechargeable Battery Pack for the receiver at 73° F / 23° C, with 10% usage of the backlight and audio volume at medium level.

[3] Locators are tested in model field conditions with no adjacent signals. Actual operating conditions may result in decreased depth accuracy due to outside signal disruptions.

[4] Marker Accuracy can be affected by several locator factors including angle or movement when measuring. Accuracy can also be affected by the marker buried on an angle or too close to metal objects.

[5] US Power frequency is not available for E-Models.

[6] External USB Type-C® flash drive is limited by flash drive size.

Available Kits

3M Part # / Legacy Part #	Product Name	Cable/Pipe Locate	Fault Locate	Electronic Marker Locate	Path Marker Locate	Transmitter Output	Direct Connect Cable – small clips	Direct Connect Cable – large clips	Coupler Size (inches)	2200RB Rechargeable Battery	Receiver Rechargeable Battery	Cigarette Lighter Adapter Cable	Carrying Bag
Locating and Marking Kits													
7100253205/ 80000219560	3M™ Dynatel™ Locator 2550X EMS/ID/U12, Marker/Cable/Pipe, 4.5" Coupler, 12W, 1/Case	●		●		12W		●	4.5	●	●	●	●
7100253204 / 80000219545	3M™ Dynatel™ Locator 2550X EMS/ID/U3, Marker/Cable/Pipe, 4.5" Coupler, 3W, 1/Case	●		●		3W		●	4.5		●		●
7100253530 / 80000219222	3M™ Dynatel™ Locator 2550X C3, Cable/Pipe, 3" Coupler, 3W, 1/Case	●				3W	●	●	3		●		●
Additionally, kits contain a ground rod, Alkaline battery accessories and USB Type-C® accessories.													
Receiver/Locator Only													
7100253531 / 80000219503	3M™ Dynatel™ Locator 2550X EMS/ID, Marker/Cable/Pipe, Locator Only, 1/Case	●		●							●		
7100253526 / 80000219214	3M™ Dynatel™ Locator 2550X, Cable/Pipe, Locator Only, 1/Case	●									●		
Additionally, each locator/receiver contains Alkaline battery accessories and USB Type-C® accessories.													
Transmitter Only													
7100144283 / 80611334543	3M™ Dynatel™ Transmitter Only 2550-T12 M-SRS, 1/Case	●				12W	●	●		●		●	
Additionally, each transmitter contains a ground rod and Alkaline batteries.													
**Not available in USA or Canada													
7100253523 / 80000219537	3M™ Dynatel™ Locator 2550X EMS/ID/C12, Marker/Cable/Pipe, 3" Coupler, 12W, 1/Case	●		●		12W	●		3	●	●	●	●
7100253532 / 80000219511	3M™ Dynatel™ Locator 2550X EMS/ID/C3, Marker/Cable/Pipe, 3" Coupler 3W, 1/Case	●		●		3W	●		3		●		●
7100253521/ 80000219248	3M™ Dynatel™ Locator 2550X C12 Locator, Cable/Pipe, 3" Coupler, 12W, 1/Case	●				12W	●	●	3	●	●	●	●
Additionally, each kit contains a ground rod, Alkaline battery accessories and USB Type-C® accessories.													

CE Part Numbers

3M Part # / Legacy Part #	Product Name	Cable/Pipe Locate	Fault Locate	Electronic Marker Locate	Path Marker Locate	Transmitter Output	Direct Connect Cable – small clips	Direct Connect Cable – large clips	Coupler Size (inches)	2200RB Rechargeable Battery	Receiver Rechargeable Battery	Cigarette Lighter Adapter Cable	Carrying Bag
CE Kits													
7100253524 / 80000219644	3M™ Dynatel™ Locator 2550XE EMS/ID/U12, Marker/Cable/Pipe, 4.5" Coupler, 12W, 1/Case	●		●		12W		●	4.5	●	●	●	●
7100253114 / 80000219610	3M™ Dynatel™ Locator 2550XE EMS/ID/C12, Marker/Cable/Pipe, 3" Coupler, 12W, 1/Case	●		●		12W	●		3	●	●	●	●
7100253198 / 80000219321	3M™ Dynatel™ Locator 2550XE C12, Cable/Pipe, 3" Coupler, 12W, 1/Case	●				12W	●	●	3	●	●	●	●

*Additionally, kits contain a ground rod, Alkaline battery accessories and USB Type-C® accessories.

3M Part # / Legacy Part #	Product Name	Cable/Pipe Locate	Fault Locate	Electronic Marker Locate	Path Marker Locate	Transmitter Output	Direct Connect Cable – small clips	Direct Connect Cable – large clips	Coupler Size (inches)	2200RB Rechargeable Battery	Receiver Rechargeable Battery	Cigarette Lighter Adapter Cable	Carrying Bag
Receiver Only													
7100253199 / 80000219586	3M™ Dynatel™ Locator 2550XE EMS/ID, Marker/Cable/Pipe, Locator Only, 1/Case	●		●							●		
7100253062 / 80000219297	3M™ Dynatel™ Locator 2550XE, Cable/Pipe, Locator Only, 1/Case	●									●		

*Additionally, each locator/receiver contains Alkaline battery accessories and USB Type-C® accessories.

3M Part # / Legacy Part #	Product Name	Cable/Pipe Locate	Fault Locate	Electronic Marker Locate	Path Marker Locate	Transmitter Output	Direct Connect Cable – small clips	Direct Connect Cable – large clips	Coupler Size (inches)	2200RB Rechargeable Battery	Receiver Rechargeable Battery	Cigarette Lighter Adapter Cable	Carrying Bag
Transmitter Only													
80611334766	3M™ Dynatel™ Transmitter Only 2550E-T12 M-SRS, 1/Case	●				12W	●	●		●		●	

*Additionally, each transmitter contains a ground rod and Alkaline batteries.

Accessory List

3M Part #	Legacy Part #	Part Name
7000027975	26101606007	3M™ Ribbed Battery Compartment Cap with Liner for Dynatel™ M-Series Cable/Pipe Locators
7000058654	80611312499	3M™ 6" Dyna-Coupler with Pouch & 9011 Coupler Cable, 1196/C, 1/Case
7000057745	80610074850	3M™ Direct Connect, 5-Foot Transmitter Cable, Telephone 9012, 1/Case
7000058141	80610598668	3M™ Small Clip Direct-Connect Transmitter Cable for All Cable/Fault Locators 2892, 1/Case
7000058140	80610598130	3M™ Large Clip Direct-Connect Transmitter Cable for Most Cable/Fault Locators 2876, 1/Case
7000043006	80610126833	3M™ Ground Extension Cable 9043, 1/Case
7000057820	80610126841	3M™ Ground Rod 8006, 1/Case
7000058653	80611306517	3M™ Rechargeable Battery 2200RB, 1 Kits/Case
7000057744	80610074686	3M™ 3" Dyna-Coupler, 3001, 1/Case
7000031716	80611325830	3M™ 4.5" Dyna-Coupler 4001, 1/Case
7000031432	80610074843	3M™ Coupler Cable 9011, 1/Case
7000006221	80611335201	3M™ Dynatel Locator Coupler Accessory Kit 4519, 1/Case
7000058326	80610764716	3M™ Cable Locator Coupler Accessory Kit 3019
7000058906	80630002535	3M™ 7000RB Rechargeable Battery Pack Dynatel™ Cable/Pipe/Fault/EMS Tape Locators 7000 Series, 1/Case
7100312883	80000237448	3M™ Dynatel™ Q65M6 USB-C Battery Charger 5vdc 3amp 30 watt minimum w/ international plug adapters
7100231120	80000225856	3M™ Soft Carrying Bag for 2200M, 2500 and 7000 Series, 1/Case
7100320323	80000237315	3M™ Assembly Harness Alkaline Battery Pack With Diode

Quality Testing
Our products undergo rigorous quality testing before shipment to ensure their excellence.

Packaging
We meticulously package our products to guarantee they arrive at their destination in pristine condition.

Transport
We prioritize swift transportation, minimizing your waiting time to receive your order promptly.

Delivery
Our delivery service is designed to bring the products you've ordered directly to your doorstep, tailored to your specific preferences.

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