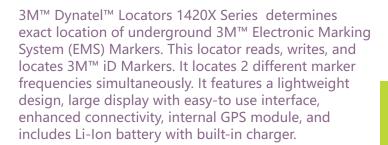


# **Dynatel Locators 1420X**



3M Dynatel 1420X Marker Locator can locate all models of passive markers that are properly installed. It detects industry standard electronic marker frequencies. This Dynatel locator has simplified integrated interfaces with precision locating capabilities. A GPS communication system is incorporated into this Dynatel locator to provide GIS mapping. The Dynatel locator operates at a temperature of 4 to 122 °F (20 to 50 °C).

## **Physical Specifications**

Receiver	Size (L x W x H)	Weight with batteries
3M Dynatel 1420X	76.2cm x 11.9cm x 26.7cm	1.8 kg
Shipping Box	84cm x 43cm x 32cm	2.6 kg

# The 3M Dynatel 1420X locators are designed to equip a locate professional with the following technologies for underground locating and mapping:

- Receiver with Bluetooth wireless technology.
- Integrated USB port compatible with USB Type-C connector.
- Internal GPS data can be saved internally or directly to a memory stick compatible with a USB Type-C connector.
- Write/read/locate 3M™ iD Markers on iD capable units.
- Large LCD with an image-driven graphical interface.
- Locate 3M<sup>™</sup> Electronic Marker System (EMS) on iD capable units.

### **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™ Locators1420X (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 <sup>™</sup> connector AC adapter 15W *The unit will stop charging when unit temperature is 104° F (40° C) or higher and shuts off at 122° F (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) External GPS Devices-Defer to Published specifications of the device				
Gain Control	Manual and automatic				

Please take note of the following information:

- It is recommended to use the rechargeable battery pack. However, a battery holder and adapter are provided for using 8-AA size alkaline batteries as a backup. which would have reduced battery life.
- The battery life specified for the 3M™ Rechargeable Battery Pack for the receiver is based on operation at 73° F / 23° C, with 10% backlight usage, and audio volume at a medium level.

Electronic Marker System (EMS) Specifications					
Marker Depth Accuracy <sup>3</sup>	+/- (10% + 5 cm) or +/- (10% + 2 in) up to specified depth of marker				
Marker Locate Accuracy⁴	Peak signal is found directly over the electronic marker.				
Marker Frequencies⁵	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 (available on U model units)	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)				
ID Marker Write Range	Near-Surface 6 in (15 cm) Ball Marker 12 in (30 cm) Full-Range 24 in (61 cm)				
Data Storage <sup>6</sup>	EMS-iD Read Records 512 EMS-iD Program Records 128 Cable Depth Records 512 Locate Records 512 Number of EMS-iD Templates: 75				

<sup>&</sup>lt;sup>3</sup> 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.

<sup>4</sup> 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.

US Power frequency is not available for E-Models.

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

te e		ocate			small clips	large clips		Battery	tery	Cable	
Cable/Pipe Locate	Fault Locate	Electronic Marker Locate	Path Marker Locate	Transmitter Output	Direct Connect Cable –	Cable –	Coupler Size (inches)	2200RB Rechargeable Batt	Receiver Rechargeable Battery	ELighter Adapter	Carrying Bag
		•	•						•		
		•							•		
		Cable/Pipe Locar Fault Locate	Cable/Pipe Fault Loca'	Cable/Pipe Fault Loca  Electronic  Path Mark	Cable/Pipe Fault Loca'  Electronic  Path Mark Transmitte	Cable/Pipe Fault Loca'  Electronic  Path Mark Transmitte  Direct Con	Cable/Pipe Fault Loca'	Cable/Pipe Fault Loca' Fault Loca' Fault Loca' Path Mark Transmitte Direct Con Direct Con Coupler Si	Cable/Pipe Fault Loca  Electronic  Path Mark Transmitte Direct Con Coupler Si		

<sup>\*\*</sup> Each kit contains battery and USB Type-C® accessories.

#### **Accessory List**

3M Part #	Legacy Part #	Part Name		
7000027975	26101606007	3M™ Ribbed Battery Compartment Cap With Liner For Dynatel™ M-Series Cable/Pipe Locators		
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 minin 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		



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