3M™ Dynatel™ EMS Marker/Tape Locator 7420/7420E Product Specifications

Physical Specifications:

	Size (H x W x D) IN (CM)	Weight (including batteries)
Locator	30" x 6.5" x 10.5" (76 x 17 x 27)	5 lb. (2.25 kg)
	Size (L x W x H) IN (CM)	
Shipping Box	33" x 17" x 12.5" (84 x 43 x 32)	7 lb. (3.2 kg)

Environmental Specifications:

Operating temperature	-4° F to 122° F (-20° C to 50° C)
Storage temperature	-4° F to 158° F (-20° C to 70° C)
Regulatory	7420 (FCC Part 15), 7420E (CE)
Environmental Standard	IP54

Compatibility:

3M EMS/ID Markers	All 3M markers (telephone, gas, communication, power, water, wastewater and general purpose)
3M EMS 7600 Series Caution Tape	All 3M path marking caution tape (telephone, gas, wastewater)

Range/Depth:

Write Range
3M ID Markers:

Near-Surface	6 in. (15 cm)
Ball Marker	12 in. (30 cm)
Full-Range	24 in. (61 cm)

7420 Read Range **(Telephone, Power, Gas, Water, Wastewater, Communications (CATV), General Purpose)[1]**
3M ID Markers:

Near-Surface	3 ft. (0.9 m)
Ball Marker	5 ft. (1.5 m)
Full-Range	8 ft. (2.4 m)

7420E Read **(Telephone, Gas, Wastewater, Water, Communications (CATV), General Purpose)***
3M ID Markers:

Near-Surface	90 cm (36 in.)
Ball Marker	1.5 m (60 in.)
Full-Range	2.4 m (94 in.)

* Some countries do not allow all marker operating frequencies. Refer to the Operator's Manual for more information.

Detection Depth 3M Passive Markers (no ID):

Near-Surface	3 ft. (0.9 m)
Ball Marker	6 ft. (1.8 m)
Mid-Range	7 ft. (2.1 m)
Full-Range	9 ft. (2.75 m)

Maximum Burial Depth

7600 Series Caution Tape	2.0 ft. (.61 m)
Depth measurement accuracy	+/- (10% + 5 cm) or +/- (10% + 2 in.) up to specified depth of marker or caution tape (Depth accuracy susceptible to high ambient noise conditions)

ID Marker Memory Storage:

Memory storage with date/time stamp	Read marker records 100
Written marker records	100
User defined ID templates	32
Marker depth memory storage	Five with date/time stamp

Electrical Specifications:

Power	Rechargeable battery pack (12V2R4A)[2]
Battery life:	8 hours typical[3]
Charging time	2.5 hours, with 90~240V AC adapter
Display	Large graphic high-contrast LCD with backlight
Speaker	0.25 W
Headphone jack	Standard mini phone jack
Serial port	Standard RS232 serial with DB9 connector(RS232 to USB adapter cable included)

Notes:
[1]Some countries do not allow all marker operating frequencies. Refer to configuration section for 7420E instruction manual (Section 4A).
[2]It's recommended to use the rechargeable battery pack. However, a battery holder is provided for using 8-AA size Alkaline batteries for backup, which would have reduced battery life.
[3]The battery life is measured for the 12V2R4 rechargeable battery pack at 73°F/23°C, with 10% usage of the backlight and audio volume at medium level.

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