

# FIBER MARKING & LOCATING

Protect your Fiber Network!

TESTING | TROUBLESHOOTING | ACCURACY



### FAST.

92kHz Fiber OmniMarker™ can be placed in any orientation. Fiber enhanced Marker Mate's scan mode can locate all 9 electric utilities simultaneously.



### ACCURATE.

The 3 orthogonally mounted coils of the OmniMarker™ produce a stronger signal and the Marker-Mate's pinpoint feature can detect precise location.



### RELIABLE.

No MSDS for our OmniMarkers™ means no fluids to be spilled which reduces mitigation cost and the Marker Mate's ability to detect all marker brands mean you only need one tool.

## Product Features:

### ENSURE YOUR BURIED NETWORKS ARE PRECISELY FOUND.

#### FIBER OMNI-MARKER

- **EASY TO USE:** Does not require any particular orientation when buried and fits into standard 4 inch trench with NO EXTRA DIGGING.
- **RELIABLE:** No floating parts or liquids to contaminate the environment.

#### MARKER-MATE

- **THE RIGHT TOOL:** The scan mode and pinpoint accuracy within the EML-100 reduces time locating OmniMarker™, UniMarker™ and other markers made to industry standard frequencies.
- **ACCURATE:** User-Adjustable detection threshold is shown in bar graph, numerica and audible signal strength options and is equipped with battery warnings within its rugged design.

## ORDERING INFORMATION:

| CAT. NO. | DESCRIPTION         |
|----------|---------------------|
| EML100   | Marker Mate Locator |



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## SPECIFICATIONS:

|   |  |
|---|--|
| <b>Housing Material:</b>  | High density welded polyethylene   |
| <b>Identification:</b>  | Solid moulded colour and moulded text  |
| <b>Detection Range:</b>   | 1.5 m typical (5 ft) for all models (using Tempo EML-100 or RD8000MRX)   |
| <b>US Patents:</b>  | 5,699,048 and 6,097,293  |
| <b>Detection Field:</b>   | Dipole (Uni Marker model), Spherical (Omni Marker model)   |
| <b>Frequency tolerance:</b>   | ± 0.35 %   |
| <b>Detection Offset:</b>  | 15 cm (6") maximum at 1.5 m (5 ft)   |
| <b>Overall Diameter:</b>  | 115 mm (4½") max   |
| <b>Minimum Trench Width:</b>  | 100 mm (4") Omni Marker case is dimpled to allow this 115 mm (4½") for UniMarker devices   |
| <b>Anchoring:</b>   | Two "tie down" loops along flange.<br>UniMarker devices are supplied with a mounting clip  |
| <b>Detection Offset (for OmniMarker or horizontally mounted UniMarker):</b> | 15 cm (6") maximum at 1.5 m (5 ft)   |
| <b>Weight:</b>  | 136 g (0.3 lb) OmniMarker models<br>70 g (2½ oz) UniMarker models  |
| <b>Interior Foam (OmniMarker models only):</b>                              | Ensures precise mechanical alignment of the coils and structural strength.   |
| <b>Water Penetration:</b>   | Housing welded leak tight. Pressure tested at production.  |
| <b>Crush strength:</b>  | 35 pounds (155 N) applied with 0.187" (4.75 mm) radius point causes less than 0.25" (6 mm) deflection. 400 pounds (1780 N) uniformly distributed load with 1.5" (40 mm) aggregate. |
| <b>Puncture resistance:</b>   | 22 pounds (100 N) applied with a point that has a 1/64 Inch (0.4 mm) radius.   |
| <b>Chemical Resistance:</b>   | High density polyethylene has good resistance to non-oxidising acids, alkalis and solvents (tested with diesel fuel, gasoline, alcohol, acetone and motor oil).                    |
| <b>Drop and Shock Resistance:</b>   | 20 foot (6 m) drop on concrete   |
| <b>Interior Foam (OmniMarkers only):</b>                                    | Provides mechanical alignment of the coils and structural strength.  |
| <b>Temperature:</b>   | -30 C to +65 C (operation), -40 C to +75 C (storage)   |
| <b>UV Resistance:</b>   | 1 year direct sunlight (simulating storage)  |

## MARKER BALLS:

| COLOR(S) |       | FREQ. (kHz) | COMMON USE        | UNIMARKER | OMNIMARKER |
|----------|-------|-------------|-------------------|-----------|------------|
| YELLOW   | BLACK | 92.0        | Fiber Optic       | Model 183 | Model 180  |
| PURPLE   |       | 66.35       | Non-potable water | Model 178 | Model 168  |
| ORANGE   | BLACK | 77.0        | Cable TV          | Model 175 | Model 165  |
| YELLOW   |       | 83.0        | Gas               | Model 174 | Model 164  |
| ORANGE   |       | 101.4       | Telephone         | Model 173 | Model 163  |
| GREEN    |       | 121.6       | Sanitary          | Model 172 | Model 162  |
| RED      | BLUE  | 134.0       | European Power    | Model 182 | Model 181  |
| BLUE     |       | 145.7       | Water             | Model 171 | Model 161  |
| RED      |       | 169.8       | Power             | Model 170 | Model 160  |

1390 Aspen Way Vista, CA • 92081

TC6595 05/21

Latin America Phone : 1.760.510.0558 | EMEA Phone: +44 (0) 1633 927050

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EMEA Office: Tempo Europe Limited

Brecon House, William Brown Close, Cwmbran • NP44 3AB, UK

[TempoCom.com](http://TempoCom.com) | [sales@tempocom.com](mailto:sales@tempocom.com) | tel 800.642.2155



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