



Better FTTx, Better Life.

October, 2025

Technical Information

FCST-PUEM4 Extended Range Disk Markers

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Extended Range Disk Markers

FCST-PUEM4 Disk Marker provides an easy and accurate method of precisely locating flush mounted facilities, which become covered by backfill. The disk marker is easily fastened to the underside of non metallic lids or covers over flush mounted facilities, such as hand holes, manholes and other grade level enclosures during construction and maintenance. Disk Markers are not intended for direct burial.



- Maximum burial depth up to 1.7 meter.
- Locates the exact position of the marker.
- HDPE packaging, resistant to chemical corrosion.
- Withstands a temperature range of -4 to 122 °F (-20 to 50 °C).
- Suitable for multiple industries (Water, Sanitary, Telecom, Gas, Electricity, Europower).

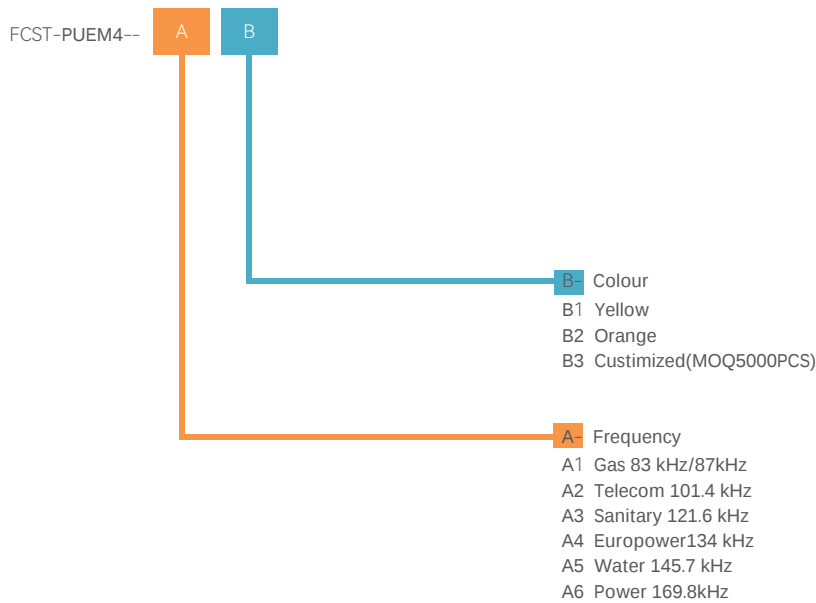
**IP68**

Product Specifications

Construction	Description
Product Type	EX.ID version
Frequency	83kHz / 87kHz / 101.4kHz / 121.6kHz / 134kHz / 145.7kHz / 169.8kHz
Identification Depth	1.5-1.7m (EX.ID version)
Service Life	50 years
Diameter	Φ110mm 4.330in
Material	HDPE
Weight	350g(±35g)
Protection Level	IP68
Storage Temperature	-20 to 70
Operating Temperature	-20 to 50
Drop Test	Can withstand the drop from 5 in (about 1.5 meters) to the concrete floor
Stress Resistance	Withstands 5 KN pressure without permanent damage, cracks, leaks, or electronic tag failure
Detector Compatibility	ED8000 or other detectors with the same frequency (for example: 3M Dynatel series) can read



Ordering Information



*Note: The specified model is determined based on optional configurations. For example: FCST-PUEM4--A1-B1.

Installations

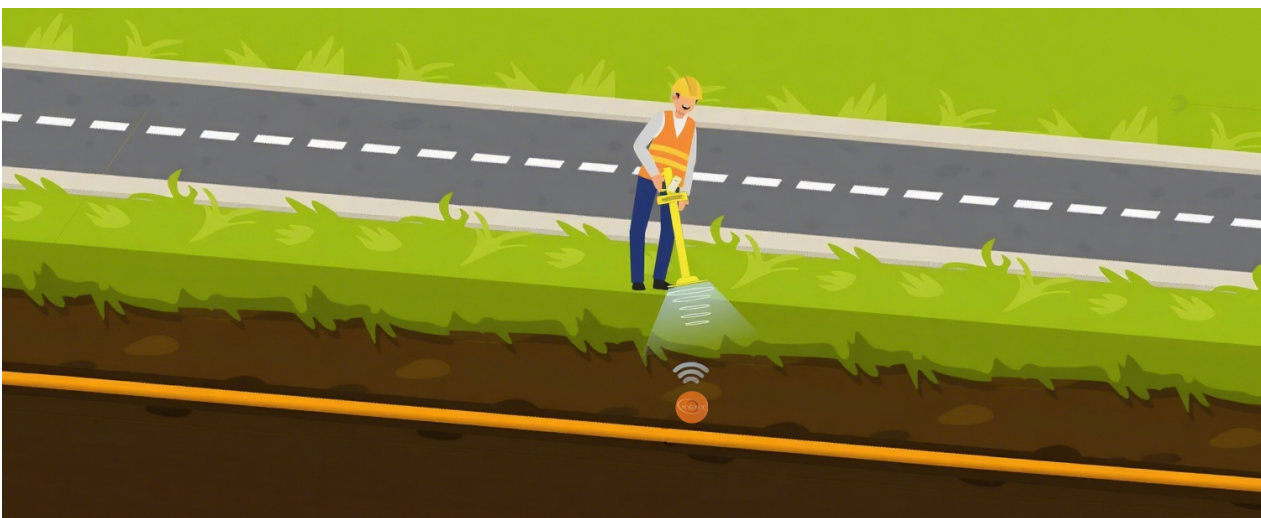
The disc electronic marker should be installed above the pipeline and kept as horizontal as possible. The non-metallic pipe should be directly attached to the pipeline and fixed with ties. When covering the soil, sand or sand should be used to fill the gap between the marker and the pipeline to avoid uneven force on the marker after covering the soil.

Considering the uncertainty of the later soil cover thickness, it is generally recommended that the burial depth be less than 80% of the maximum detectable depth of the model.

To avoid mutual interference between markers, the distance between two adjacent markers should be greater than 1.5 meters.FCST-PUEM4 Electronic Marker Datasheet.

Do not press the marker under the pipeline or the marked object.

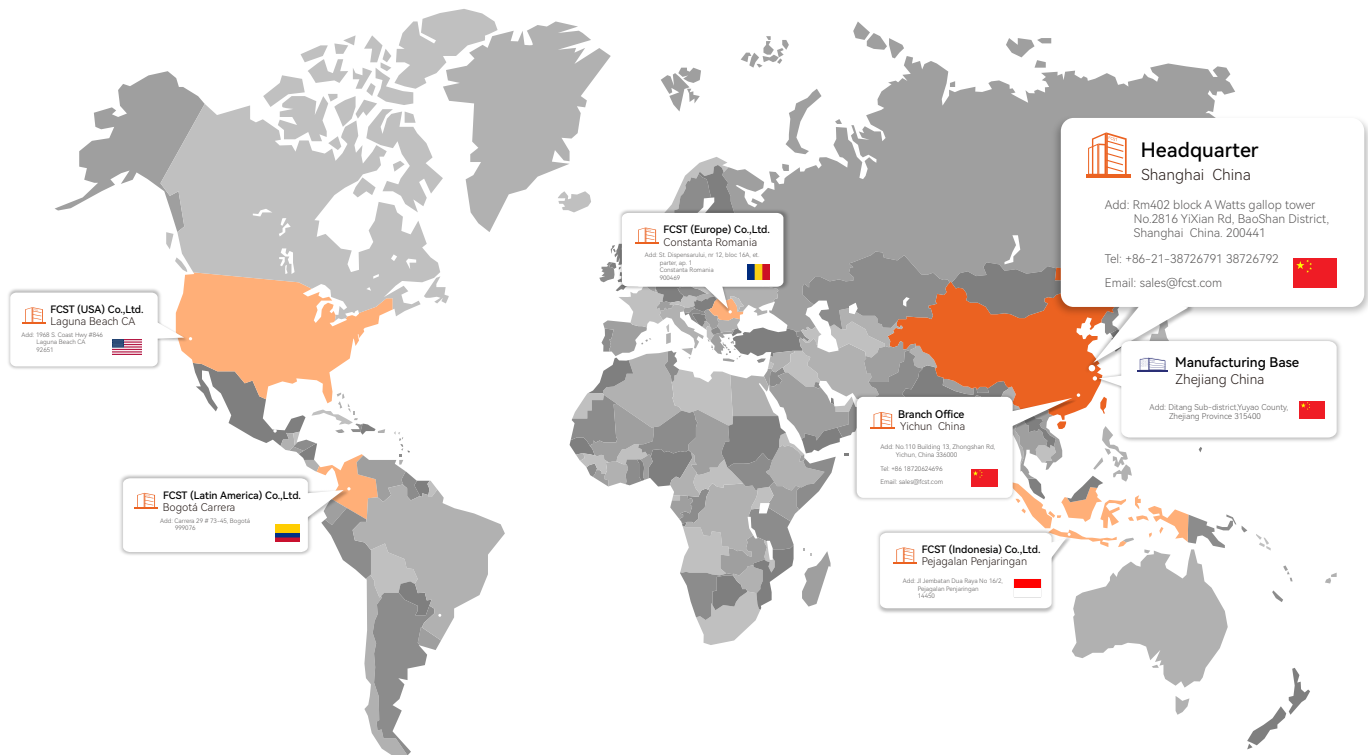
If it is a metal pipe, the marker should be kept at a distance of no less than 12CM from the top of the pipe, and there should be no metal objects covering the marker.





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Fiber Cable Solution Technology Co.,Ltd.



FCST - Better FTTx, Better Life.

At FCST, we manufacture top-quality microduct connectors, microduct closure, telecom manhole chambers and fiber splice boxes since 2003. Our products boast superior resistance to failure, corrosion, and deposits, and are designed for high performance in extreme temperatures. We prioritize sustainability with mechanical couplers and long-lasting durability.

FCST aspires to a more connected world, believing everyone deserves access to high-speed broadband. We're dedicated to expanding globally, evolving our products, and tackling modern challenges with innovative solutions. As technology advances and connects billions more devices, FCST helps developing regions leapfrog outdated technologies with sustainable solutions, evolving from a small company to a global leader in future fiber cable needs.

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