



Better FTTx, Better Life.

October, 2025

Technical Information

FCST-PUEM1

Passive Underground Electronic Marker

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Passive Underground Electronic Marker

The FCST-PUEM1 series underground electronic marker is equipped with an induction coil with a diameter of 19cm and a strong induction signal, which can be used for electronic identification of deeper underground pipelines or facilities. The FCST-PUEM1 disk marker is designed and produced according to international standard frequencies, and is compatible with electronic marker locators designed and produced according to international standard frequencies. (without ID mode)



- Detection range up to <2.5m.
- High location precision marker ball.
- No harmful chemical substances inside.
- For manholes or direct buried installation.
- Self orientation RF reflector ensures best detection range and accuracy.
- Designed according to international standard frequencies.



IP68

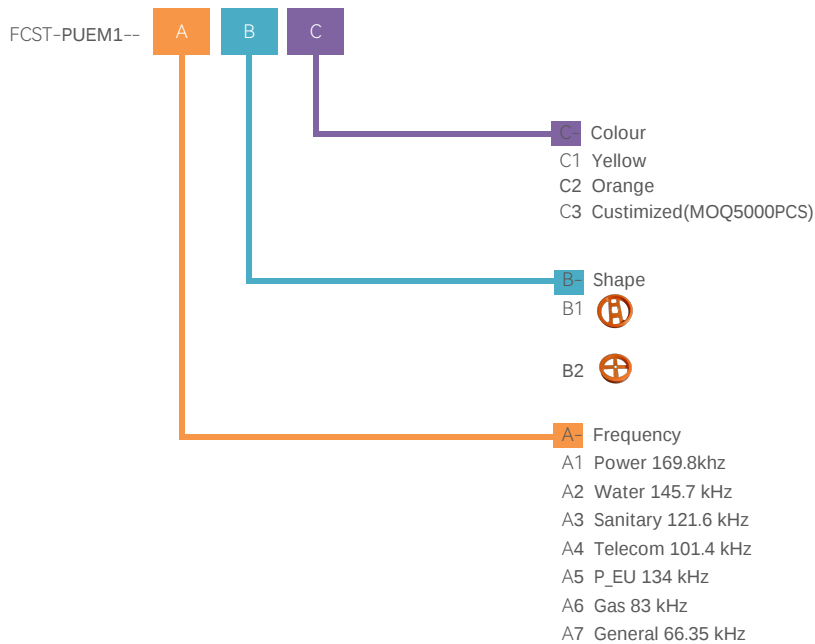


Product Specifications

Construction	Description
Product Type	EX.ID version
Frequency	169.8 kHz / 145.7 kHz / 121.6 kHz / 101.4 kHz / 134 kHz / 83 kHz / 66.35 kHz
Maximum Detectable Depth	2.25~2.5 m (EX.ID version)
Service Life	50 years
Diameter	Φ215mm 8.46in
Height	30mm 1.18in
Material	HDPE or ABS packaging, resistant to chemical corrosion
Weight	0.217 kg ± 10%
Protection Level	IP68
Storage Temperature	-30 to +55
Operating Temperature	-30 to +55
Installing Density	Usually 10~20m
Anti-drop Ability	Able to withstand drops from a height of 3 meters without affecting electrical performance
Pressure Resistance	Able to withstand pressure of 20KN without being damaged
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-PUEM1--A1-B1-C1.

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-PUEM1 Electronic Marker Datasheet.

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

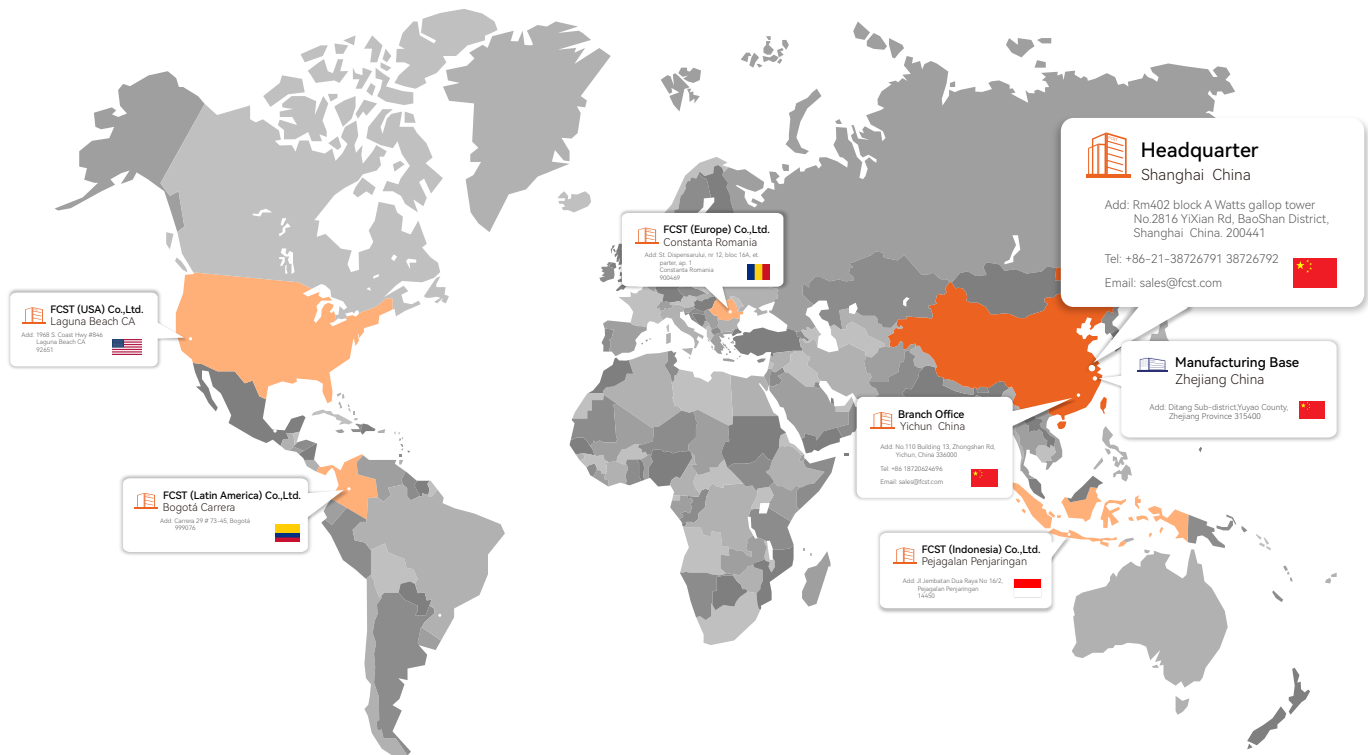
If it is a metal pipe, the marker should be kept at a distance of no less than 12CM from the top of the pipe, and there should be no metal objects covering the marker.





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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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