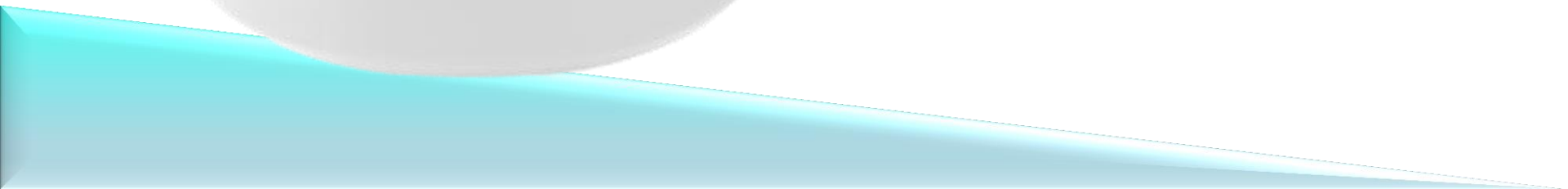
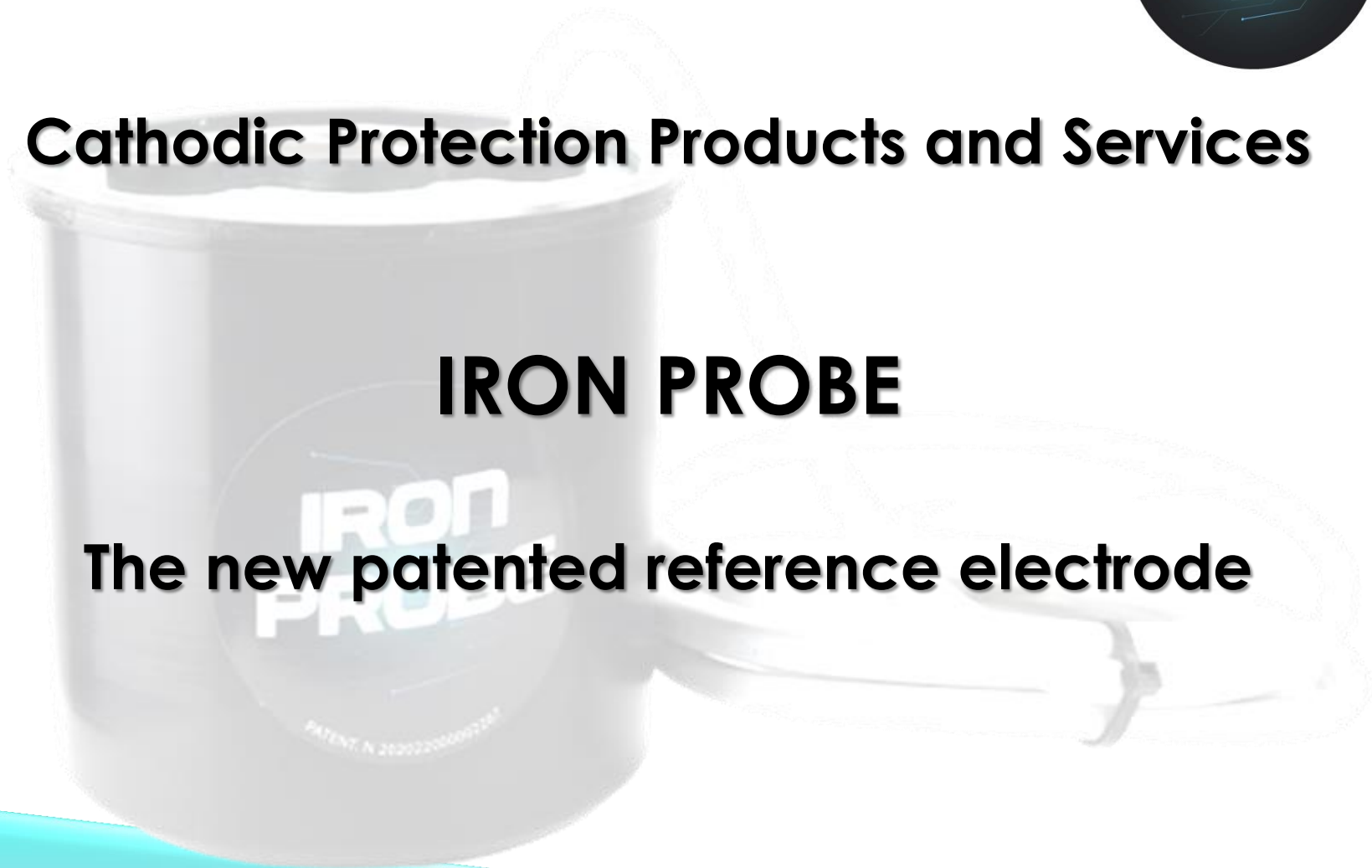




## **Cathodic Protection Products and Services**

# **IRON PROBE**

**The new patented reference electrode**

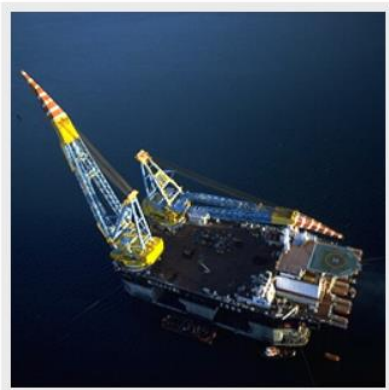




# CP Products and Services

Operating since 1981 **SAITA** is the perfect partner for companies demanding a complete service as for Cathodic Protection.

Thanks to the highly qualified, certified and experienced team, **SAITA** design, supply, install, and maintain any type of cathodic protection system, offering a complete range of corrosion prevention products and services in different environments and for varied applications :



Submerged metal structures



Industrial structures



Buried metal structures



Concrete structures

- ❑ Cathodic Protection System Design in accordance with current regulations and guide lines, applicable industry standards and client requirements
- ❑ Supply of Corrosion Control, Corrosion Monitoring and Cathodic Protection Equipment / Materials
- ❑ Surveys and Inspection of existing Cathodic Protection Systems and Structures
- ❑ Survey to identify the Coating Damages of Underground Coated Structures
- ❑ Installation of Cathodic Protection Systems
- ❑ Testing and Commissioning of Cathodic Protection Systems



## IRON PROBE

the new patented reference electrode



Patent nr 2020220000002267



## IRON PROBE

**the new patented permanent reference electrode integrating steel coupons for IR free potential measurements**

Validation of corrosion protection effectiveness is the key requirement for understanding if critical infrastructures are protected from the risk of corrosion.

Thanks to over three decades of experience in Cathodic Protection, **SAIT** has come to the design of a new efficient, reliable and cost-effective product to provide a true picture of effectiveness of Cathodic Protection: allowing the reading of the potential purified from the contribution of ohmic drop, the so-called IR-free potential (accordingly to **ISO EN 15589**) **IRON PROBE** is the best solution for a better assessing of your PC system efficacy .



# CP Products and Services

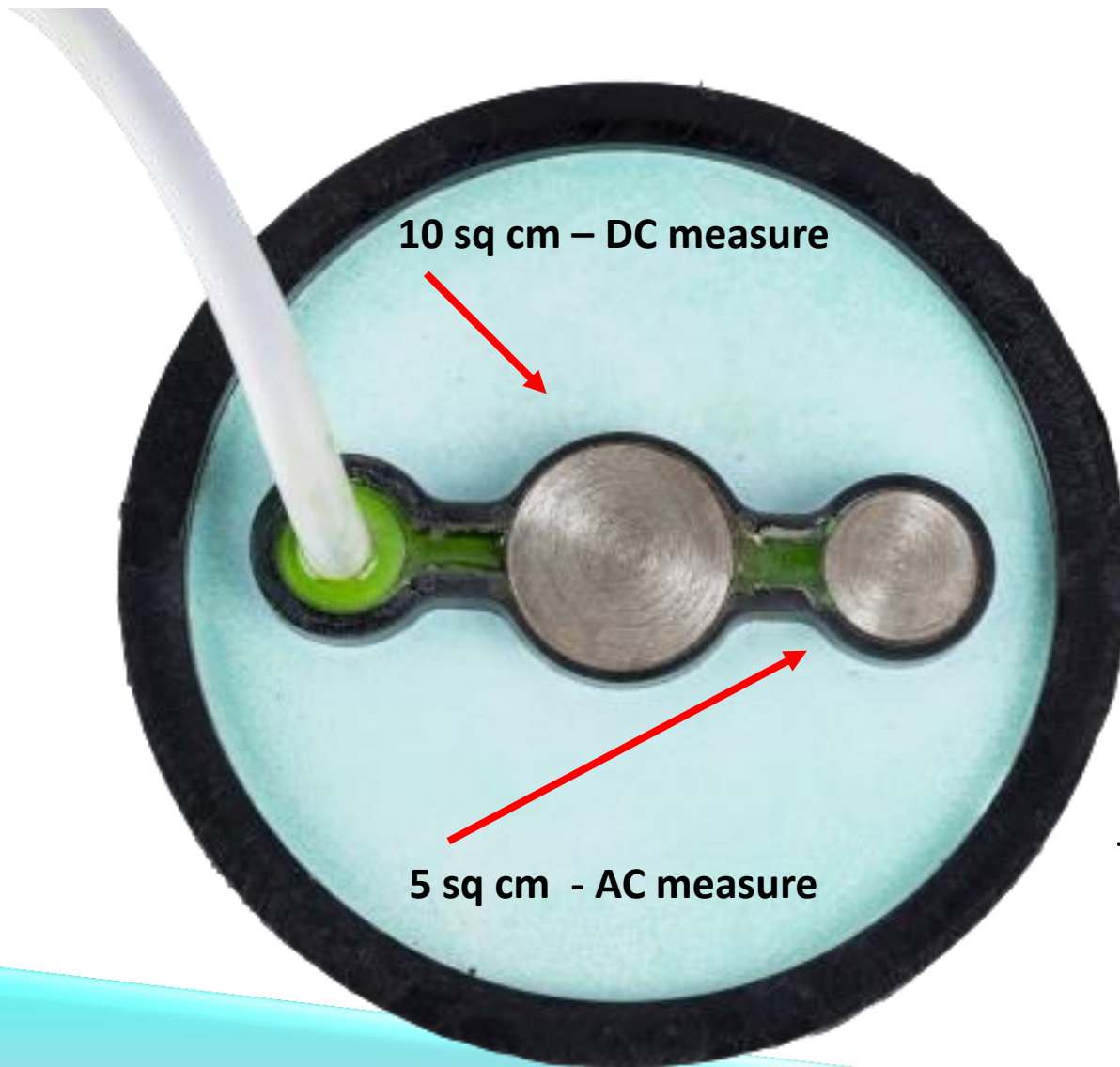


**CuCuSo4 reference electrode  
integrating 2 steel coupons**



**RECYCLED POLY OXYETHYLENE  
Outer case**





10 sq cm – DC measure

**Wider Porous Plug**  
**117,5 sq.cm**

integrating

**2 steel coupons**  
for AC – DC measures

5 sq cm - AC measure





# CP Products and Services



**COMPACT DESIGN - SMALLER SIZE**

150x158 mm (HxØ)

For an easy and fast installation



**Smaller hole, reduced digging**



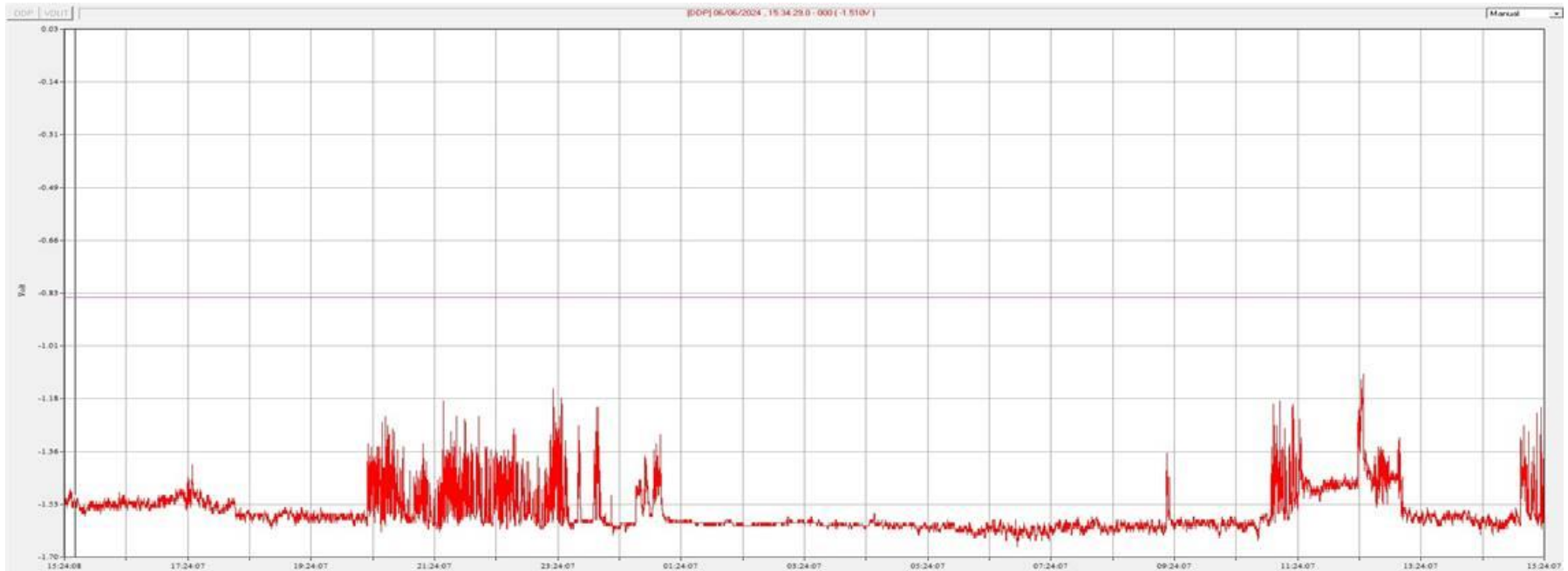
## Accuracy and minimal deviation

Thanks to the very small distance between coupons and porous plug **IRON PROBE** delivers extremely precise measures, with minimal deviation.

	Coupons	IRON PROBE	Reference Value	Max deviation
24h CSE-AAC stability T	Not connected	min -120 mV max -115 mV,	- 120mV	+/- 5 mV
	Connected	min -130 mV max -110 mV	- 120 mV	+/- 20 mV
IR Drop	Measured Potential value E <sub>on</sub> : -1,22 V		Real E <sub>irfree</sub> value: -1,16V	-0,06 V
Ambient conditions	Natural grounds also with high resistivity with low chlorides content (<200 ppm)			
Temperature	-5°C ÷ +40°C			
Lifetime	>25 years			
Minimum input resistance of connected devices	10 Mega OHM			

## INTERFERENCE CURRENT

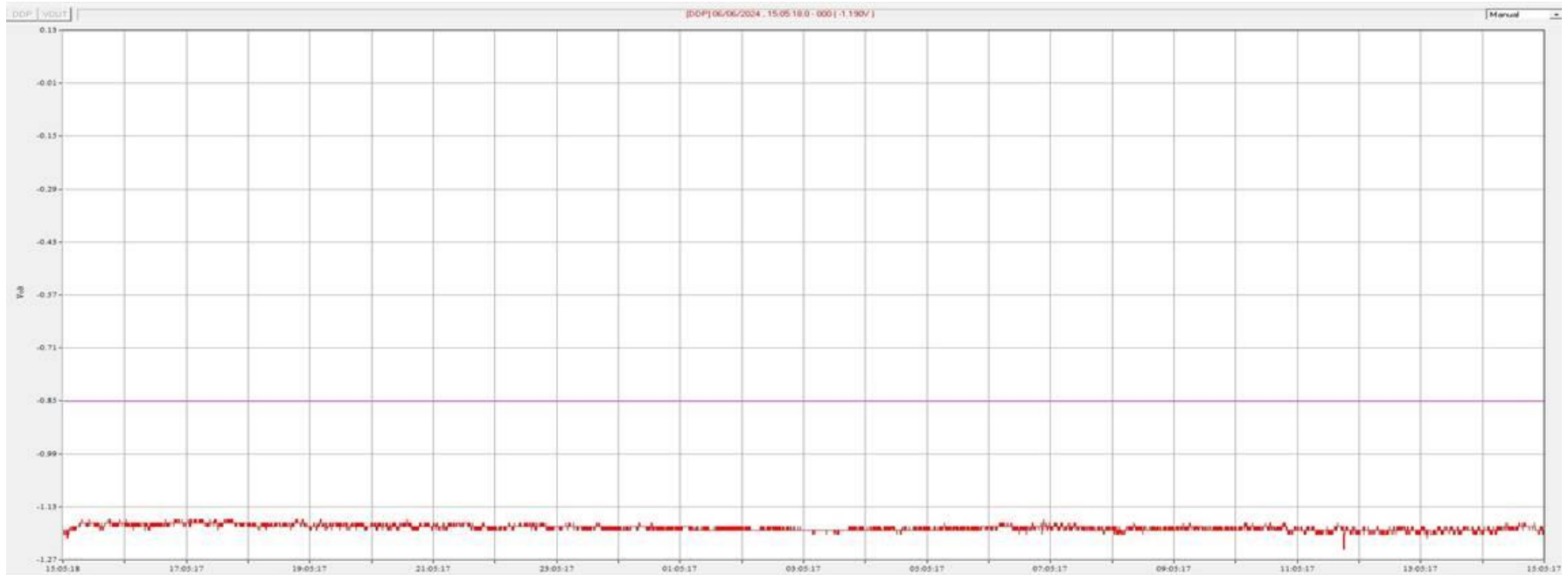
Thanks to the very small distance between the coupons and the porous cap **IRON PROBE** provides extremely precise measurements, as it is not interfered with by external stray currents.



recording of the cathode potential with a reference electrode

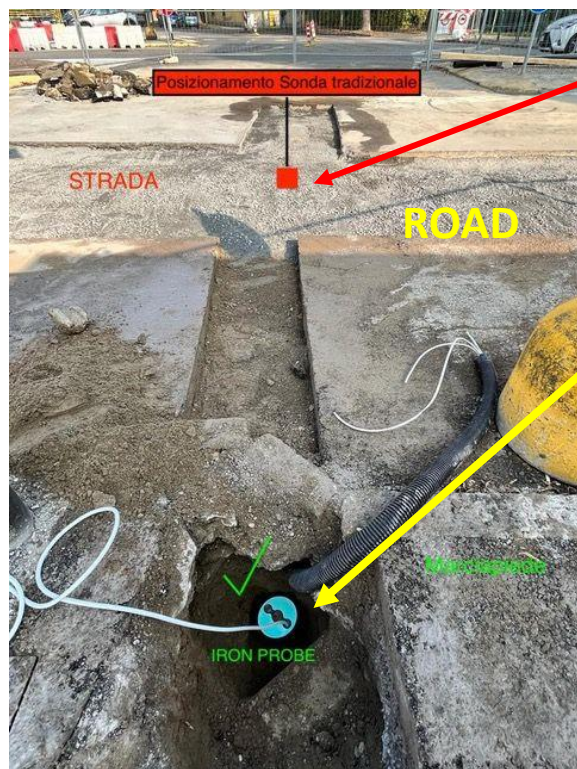
## INTERFERENCE CURRENT

Thanks to the very small distance between the coupons and the porous cap **IRON PROBE** provides extremely precise measurements, as it is not interfered with by external stray currents.



recording of the cathode potential with **IRON PROBE**

Thanks to its highest accuracy, **IRON PROBE** can be installed even at meters of distance from the buried pipe, without affecting the measurement result in terms of reliability.



Normal positioning with standard electrode

### IRON PROBE installation

avoiding digging in the middle of the road



Installation can be defined in the best place to **minimize circulation impact in urban areas**

**Compact size -- > reduced digging**

---> save trouble ---> save time

---> save work ---> save money



# CP Products and Services



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