

SOLAR POWERED

CATHODIC PROTECTION SYSTEM



Wireless Technologies USA
Witech USA Corp



BENEFITS

CATHODIC PROTECTION SYSTEM



Better stability in potential protection.



Constant protection against pipeline and metallic structures rust.



Automatic potential control. Decreases field visits to run level adjustments according to field conductivity throughout the year.



Compatible with the WILOG-CP, designed for cathodic protection test poles. Historically stores the pipe to soil potential and min, max and average value events. Sends data to the scada system using 3G and 4G networks.



Uses renewable energy: Solar.



Real time alarms.



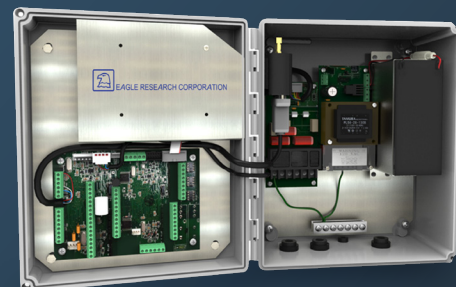
Automated potential control. PID processes maintain the right potential level. No field adjustment needed.



Wireless communications (cellular/satellite). Keep historical information for further analysis, turn on or off protection or adjust potential from any remote PC/mobile phone.



Eliminates costs and problems associated with AC energy infrastructure.





FEATURES

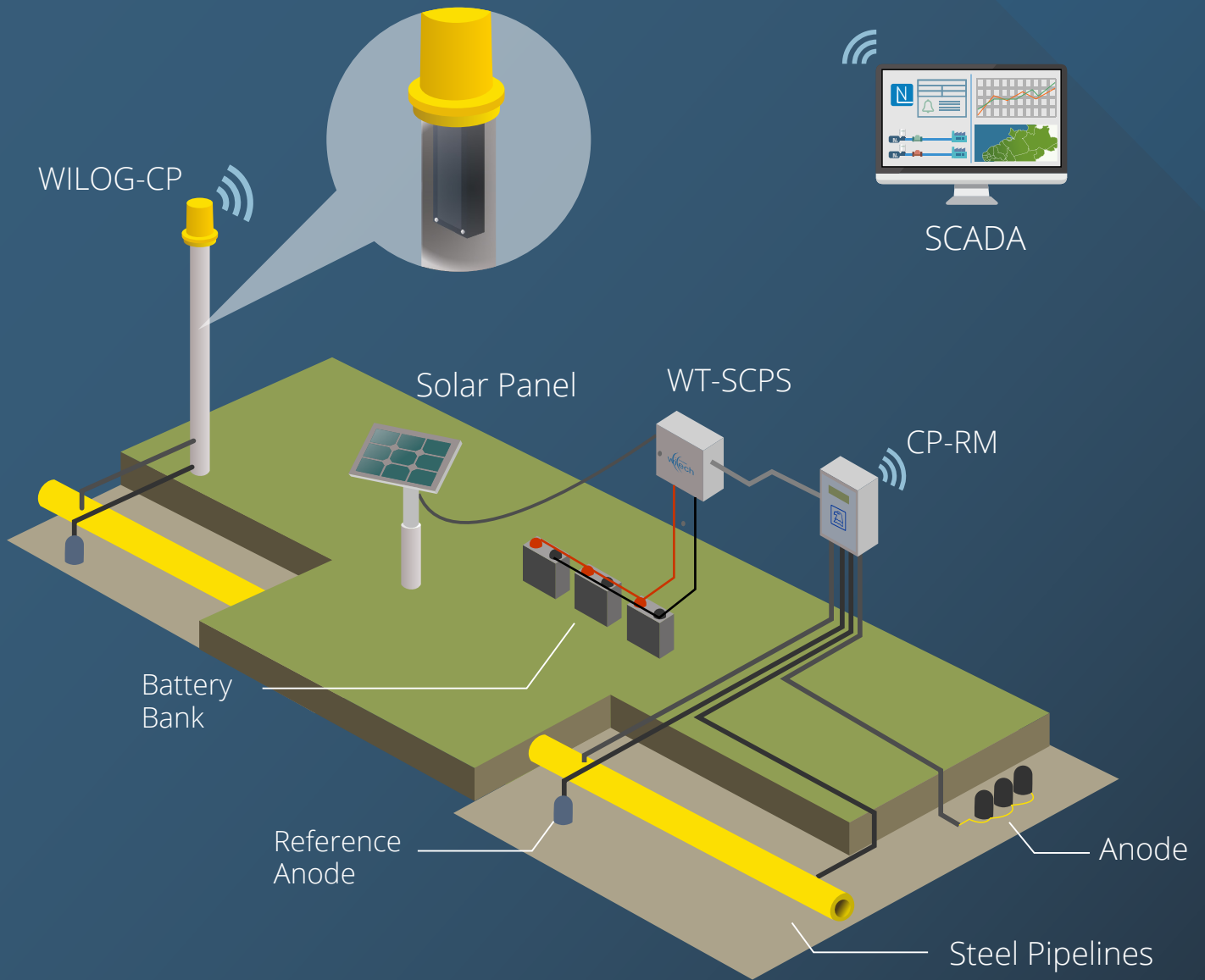
CATHODIC
PROTECTION
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- ① The WT-SCPS (Solar Cathodic Protection System) alongside with the Eagle potential monitoring system, allows continuous/automatic control and monitoring of the total current injected to the gas line, guaranteeing at all times enough protection to avoid corrosion, independent of the fields dryness and humidity.
- ① Renewable energy implementation.
- ① Remote potential adjustment according to reference points established by the user.
- ① Allows potential cycling of the pipeline through GPS and measures ON-OFF levels in order to check the natural potential of the pipeline, current leakage, and avoid possible deficiencies of current distribution.
- ① SCADA integration for monitoring, cycling control and remote potential adjustment.
- ① Ideal for cathodic protection against natural gas pipeline rust or any other structure that is in direct contact with the field or any risk of rust.



SOLAR CATHODIC PROTECTION SYSTEM

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SCPS INSTALLED

CATHODIC
PROTECTION
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Remote adjustment directly from SCADA



● Protection loss

Solar Cathodic Protection system in place

COMPARISON

CATHODIC PROTECTION SYSTEM

Detail	AC Rectifier	WT-SCPC
Prevents coating damage due to power outages and fluctuations in the AC service.	✗	✓
Remote cycling control for potential measurement ON-OFF.	✗	✓
Daily and hourly historic voltage and current storage, pipeline potential, current and voltage minimums and maximums, room temperature, between others.	✗	✓
Remote potential adjustment according to field conductivity.	✗	✓
Remote reference point adjustment directly from SCADA.	✗	✓
AC energy service monthly savings.	✗	✓
Avoids collateral damages due to electric discharges in the AC infrastructure.	✗	✓



TECHNICAL SPECIFICATIONS

**CATHODIC
PROTECTION
SYSTEM**

Specifications

Hazardous Areas:	Complies Class 1, Div 2. Pending certification
Dimensions:	12" x 10" x 6" (304.8 X 254 X 152.4 mm)
Housing Material:	Polycarbonate

Power

Input Voltage:	11 - 30 Vdc
Output Voltage:	2.4 - 24 Vdc
Output Current:	0 - 8 A
Shunt:	0.001 ohm
Control:	Manual/Automatic PID
PID:	Current or potential
Frequency Control:	External control 0 - 500 Hz

Environment

Temperature:	-4°F to 80°F (-20°C to 80°C)
Humidity:	Up to 95% non-condensing
Storage temp. humidity:	-40°F to 185°F (-40°C to 85°C) 10 - 95% RH non-condensing

Protections

Overvoltage:	30 - 32 Vdc
Overload:	105 - 130% rate output power, shut down, re-power on to recover



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