

PRODUCT DATA / PROCUREMENT CONTROL

Smart Cathodic Protection Test Stations

Configured mechanical, electrical and monitoring assemblies for remote CP data collection and field access.



DOCUMENT STATUS	Public technical summary for enquiry and supplier prequalification. It is not an order-specific approved datasheet.
PRODUCT SCOPE	Test station/enclosure, terminal circuits and project-selected logger, power, communications, antenna, cloud/data and commissioning boundary.
FINAL ACCEPTANCE	The signed quotation, approved drawing/datasheet, purchase order and agreed ITP take precedence over this document.

Selection principle

Remote monitoring is a system boundary, not one box. Hardware, power, communication coverage, SIM/cloud term, portal/API, cybersecurity, commissioning and ongoing ownership must be explicit before quotation.

Applicable standards and project references

Reference	How it is used
ISO 15589-1 / project CP criteria	Defines the CP measurement context and project acceptance needs.
IEC 60529 / NEMA 250	Enclosure classification only when supported by selected hardware and evidence.
IEC 61666	Terminal designation approach where adopted.
Project telecom/cybersecurity specification	Controls communications, access, retention, security, portal/API and ownership.
Approved GA, schematic and architecture	Controls the complete configured supply and interfaces.

Available product configurations

Monitoring-ready station

Mechanical/terminal assembly prepared for buyer-selected monitoring hardware.

Integrated logger station

Configured logger, inputs and wiring to approved BOM and schematic.

Solar/battery station

Power subsystem sized and protected to project load and environment.

Remote communications station

Cellular, satellite, radio or wired interface with explicit subscription/data scope.

Technical data fields

Values are confirmed per selected model, approved drawing and project test basis. Blank or project-defined fields are intentional; they prevent unsupported catalogue guarantees.

Field	Required definition	Acceptance evidence
Mechanical station	Material, dimensions, finish, mounting and environmental classification	GA/BOM/rating evidence
CP circuits	Pipe, reference, coupon, anode, bond, shunt and spare channels	Terminal schedule/schematic
Monitoring device	Make/model or approved performance specification and input range	Approved BOM/datasheet
Power	Source, voltage, capacity, protection, autonomy and charging	Power/load calculation and FAT
Communications	Network/protocol, region, antenna, SIM/subscription and ownership	System architecture/commercial scope
Data/commissioning	Sampling, alarm, time sync, users, retention, export/API and SAT	Commissioning/cybersecurity plan

Inspection and release plan

Control point	Verification	Acceptance basis
Mechanical/configuration	GA, component identity and environmental provision	Approved BOM/drawing
Wiring/continuity	Point-to-point, polarity, shielding and terminal mapping	Approved schematic
Power/function	Configured power-up, channels, acquisition and alarm checks	Approved FAT procedure
Communications	Signal/interface and data transfer under agreed test conditions	FAT/SAT plan
As-built/credentials	Final settings, documents and controlled handover	Project handover register

Documents available when included in the order

GA and schematic

Mechanical and point-to-point electrical definition.

BOM/component data

Approved hardware models, ratings and quantities.

System architecture

Power, communications, data and ownership boundaries.

FAT/SAT records

Configured functional acceptance checks.

Configuration/as-built

Final settings and approved revisions.

Operation/handover

Access, maintenance, subscription and responsibility.

Information required for quotation

- Required CP measurements, channel count, ranges, frequency and alarm logic.
- Station material/location, environmental rating, terminals and field cables.
- Power availability/autonomy and operating environment.
- Communication region/network, portal/API, cybersecurity and data ownership.
- Hardware/subscription/commissioning boundary, FAT/SAT and documents.

IMPORTANT

Do not select or install cathodic-protection components from this public summary alone. The CP designer or responsible engineer must confirm service environment, design criteria, applicable standard edition, geometry, quantity, interfaces and acceptance tests.

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Product configuration and documentation support for international cathodic-protection procurement.