





# ACTOM Protection and Control

ACTOM Protection and Control provides a comprehensive range of protection relays, substation automation systems, energy meters, smart metering and load management systems, protection and metering schemes as well as LV boards and panel accessories

## Protection Relays

ACTOM Protection and Control offers a full range of modular protection, control and auxiliary relays for generating plants, transmission and distribution networks as well as industrial plants.

Protection and Control's microprocessor based protection relays, range from the most basic; suitable for the industrial and mining sector, through to advanced management relays: typically used in EHV transmission networks. The company has considerable experience in the protection field and can offer solutions for:

- Overhead lines and cable feeders
- Motors and generators
- Busbars, transformers and rectifiers
- Unit protection and distance schemes
- Disturbance recorders and quality of supply metering

The company has dedicated technical sales staff which provides a high level of expertise and support to the end user.

## Substation Automation & Control

ACTOM Protection and Control is a leader in the supply of products and solutions used in the substation automation environment.

The company offers a complete IEC61850 compliant substation automation system with:

- full range of IEC61850 compliant protection relays and bay controllers
- proxy servers for connection to legacy protocols i.e. DNP3 and Modbus
- RTU's for the distribution of information beyond the substation
- range of LAN equipment suitable for the substation environment
- Software packages for the visualization, control and configuration of a substation automation system.

The company offers technical advice, training, design and integration services for substation automation systems.



## Smart Metering Solutions

ACTOM Protection and Control provides total solutions for the metering of electricity for all segments of the electricity market i.e. generation, transmission and distribution. ACTOM also supplies metering solutions to municipalities, private metering companies, the mining industry and the electrical industry in South Africa. ACTOM has been awarded and delivered prepayment contracts over R280M with over 380,000 prepayment meters having been delivered.

ACTOM has extensive experience in AMR projects and is proud to be the first implementer of an AMI SMART metering Prepayment project on the African continent when it deployed 80,000 units with 30,000 load control units in Botswana starting in 2009. This system is still operating and recovering revenue today.

Its metering range encompasses products from simple prepayment products to complex Smart metering solution including concentrators, Head End (AMI) systems and interface to MDM and Customer business systems. The solutions comply to relevant IEC, Standard Transfer Specification and standard interface standards adopted by the industry. This allows a high level of compliance with the latest National Regulatory and international Standards as adopted by the industry.



In addition to products, ACTOM Protection and Control also offers consultancy, engineering and project execution services in the field of smart metering and field deployment. ACTOM is proud to announce its local meter manufacturing facility making it a truly local meter manufacturing company.

## Metering Software and Services.

ACTOM Protection and Control offers Automatic Meter Reading (AMR) software and hosted services for Commercial & Industrial applications and Head End Systems (HES) for Smart Metering applications. These support all key USE CASES and functionality applicable for Smart Metering & future Smart Grid Applications such as Billing use cases, Remote Disconnect/reconnect, Load Profiling, event & alarm notification, Demand Side Management, etc. For customer who cannot afford the CAPEX or do not presently have the required skills to deploy smart metering systems, Actom offers Hosted AMR and Smart Metering Solutions to assist smaller customer meet these market needs.

## Energy and Market Management

ACTOM Protection and Control has a range of products developed for the

control and trading of electrical energy. The solutions which encompass the generation, transmission and distribution of energy includes:

- Network Management Systems (NMS) consisting of Energy Management Systems (EMS) and Advanced Distribution Management Systems (ADMS) solutions. .
- Outage Management Systems (OMS).

## Protection and Metering Schemes

ACTOM Protection and Control has established a reputation for excellence in design, engineering, manufacture, testing and commissioning of protection, control and metering schemes for Eskom municipalities, mines and industry.

The company supports all products with extensive in-house engineering expertise which includes:

- professional project management
- protection, control & metering schemes formulation of specifications
- scheme and system design, manufacture and integration
- CAD- based drawing office support
- scheme testing and commissioning

## Technical Services

ACTOM Protection and Control makes use of its extensive in-house engineering expertise to further enhance the product offering. The



company provides protection as well as product specific training courses. It also provides support to assist customers with system studies, fault calculations and relay protection settings.

## LV Boards and VSD's

ACTOM Protection and Control manufactures a range of modular Motor Control Centres as well as Distribution Boards to the latest specifications. The boards, available up to Form 4b, are suitable for the utility, mining, industrial and commercial market. All major brands of switchgear are fully integrated into our design.

The company also supply a range of Variable Speed Drives (VSD's) from 0.25kW up to 2.8MW, 220V to 690V.

The company also manufacture a range of LV panels which includes motor starters, gully boxes, metering kiosks and junction boxes.

## Panel and System Accesories

ACTOM Protection and Control represents a number of prestigious overseas principles for the distribution of Fusegear and panel components.

The product range includes:

- Contactors and overload switches
- Individually enclosed starters
- Feed through terminal blocks & full range of terminals
- Fuses – BS & DN, HV & LV fuse holders & switches – BS & DIN
- DIN rail and plastic ducting



2 Magnet Road

Knights

1413

South Africa

Tel: +27 (0) 11 820-5111

Fax: +27 (0) 11 820-5323

Email: [pandc.sales@actom.co.za](mailto:pandc.sales@actom.co.za)

Website: [www.actompnc.co.za](http://www.actompnc.co.za)