



Energy Division

Crompton Instruments Power Measurement, Control and Protection

Instrumentation, power measurement and control

Crompton Instruments products have been synonymous with innovation for over a century. Beginning with a variant of the Serrin arc lamp, this heritage continues with the Integra digital metering systems, demonstrating a continuing commitment to putting new technology to work in the marketplace.

The focus on measuring energy began with Colonel Crompton's patented concept for a revolving energy counter and his support for a combined circuit measuring voltage and current. Starting with analog instruments, the product range had widened by the 1970s to include transducers, protector trip relays and current transformers. During the 1990s, this portfolio was strengthened with a progressive upgrade to micro-based integrated technology from discrete circuitry.

Crompton Instruments products take a dual-track approach: providing both cost efficient and user-friendly technology. Crompton measuring and control solutions

provide a cost effective upgrades to existing analog equipment and efficient alternatives to multi-function relays. Products like the Integra digital metering systems provide sophisticated, yet user-friendly innovation, combining microprocessor technology with button-driven menus. The extensive use of remote communication protocols allow individual instruments to be fully integrated into comprehensive energy management systems.

Crompton Instruments products: applied innovation for the entire electrical energy circle, from power generation to final consumers.



Integra Digital Metering Systems

Integra multi-function metering systems measure, display and communicate over 100 parameters, including true RMS and power quality data. Fully programmable via a simple menu-driven interface, Integra systems can be integrated into energy management and SCADA systems. Options include pulsed, analog and RS-485 communication protocols, a choice of DIN, DIN-rail and ANSI case-styles and LED or LCD displays.

Integra and Paladin Transducers

Transducers measure, isolate, and convert electrical parameters into industry standard DC output signals and broadcast results via communication interface options such as RS232 and Modbus. These vibration-resistant transducers protect against high voltage and overload. Integra transducers measure up to 50 electrical and power quality parameters and offer up to four user-programmable analogue outputs. Paladin transducers provide Class 0.5 or 0.2 measurement of up to seven electrical parameters and multiple analog outputs from a single housing.

Kilowatt Hour Energy Meters

Self-contained panel meters measure combined kWh or kVAh* with pulsed or analog output options and selectable CT and VT ratios, replacing separate rotating disc meters or instantaneous wattmeters. Microprocessor controlled circuitry provides up to Class 1.0 accuracy with outputs displayed directly on the instrument monitor or a remote PC.

Protector Trip Relays

Trip relays continuously monitor and protect any electrical parameter within a set point limit. The range offers both traditional and technologically advanced products, including single parameter units, earth leakage protection, ground fault relays, vector shift and ROCOF, and microprocessor system protection relays.

Meter Relays & Digital Indicators

Comprehensive range of meter relays and digital indicators for measuring, monitoring and control of any electrical or process parameter. Meter relays are ideal for process control and load shedding applications, combining an indicator with set points which trigger alarm and control circuits when the signal deviates from set limits. This range includes digital and analogue meter relays, digital bargraph indicators and controllers. Instruments are designed for control panels and switchboards, monitoring systems, power generation and control applications.

Current Transformers

Complete range of transformers for reducing high primary currents down to a consistent 5 or 1 Amp secondary current. Options include moulded case width, busbar and aperture sizes, tape wound, balanced and split cores, current ratings and various mounting options.

Analogue Instruments

Comprehensive range of analogue instruments for measuring electrical and electronic parameters. Range includes ANSI switchboard meters, panel indicators, sealed and ruggedised instruments, and complementary selector switches for line-to-line and line-to-neutral readings. All instruments are available in a range of styles, sizes and performance specifications.

Shunts

Shunts provides an accurate DC millivolt signal, exactly proportional to the system current, to drive ammeter indicators, overload protection and control devices. This range includes industrial, switchboard, DEF 66-13, DIN, base mounted, tag end, lightweight and panel meter shunts in a variety of formats and configurations.



Over the past years, Tyco Electronics has rapidly grown to become one of the world's largest passive component manufacturer. Leading product brands such as Raychem, AMP, Elcon, P&B and many others, offers customers a large portfolio of connectors, relays, circuit breakers, fibre optic and wireless products, motors and other power components in 25 product segments.

Energy Division - Connecting the world of power

The Energy Division, a global operating unit of Tyco Electronics, provides products and systems for a wide range of industries including power utilities, equipment manufacturers, and transportation. Each business unit within the Division comes with specialised products or systems and focused set of application skills. In addition to Crompton Instruments, other well known product brands include AMP, Axicom, Bowthorpe EMP, Dorman Smith, Dulmison, Raychem and Simel.

By globally synchronising product development and manufacturing capacities, the Energy Division is able

to bring innovative and technology driven products quickly to market. The Division's significant position in individual segments and its combined size and expertise allow it to provide customers with a high level of engineering assistance and continuous after-sales support.

Tyco Electronics Energy Division is a leading supplier of:

- Cable accessories
- Connectors and fittings
- Insulators and insulation
- Surge arresters
- Switching, protection and lightning
- Power measurement and control



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