

# PRODUCTS AND SERVICES

## POWER ELECTRONIC COMPONENTS

BRIDGE RECTIFIERS	- Single and Three Phase	PULSE TRANSFORMERS	- PCB type, leaded and SMD
CHOKES	- Line, RFI, EMC	SCR / DIODE BRIDGES	- Single / Three Phase
DIODES	- Std., Fast. (Stud, Puk, Module)		- Half / Full Control
FANS/ACCESSORIES	- AC/DC to 150mm dia.	SOLID STATE RELAYS	- AC & DC Input / Output
FILTERS	- Line, RFI, EMC		- PCB & Module Type
FUSES	- Semiconductor Protection	THYRISTORS	- Std., Fast (Stud, Puk, Module)
HEAT SINK	- Extruded, Cast & Fabricated types machined to order	SCR / DIODE MODULES	- Std., Fast
IGBT's	- 1, 2 & 6 pack modules		
POWER CAPACITORS	- Power Film, PFC, DC Link and Electrolytic	VARISTORS / SPD's / GDT's	- High Power Modules, Arrestors - Solar and AC Mains, GDT's

## AUTOMATION / INSTRUMENTS / PROCESS CONTROLLERS

SMART RELAYS/PLC	- Millennium EVO 24 I/O Programmable Relays	PORTABLE METERS & ENVIRONMENTAL	Anemometers, Light Meters, CO2 Humidity, Sound Level, Multimeters
PROCESS CONTROLLERS	- Pressure, R. Humidity, CO2, Temp, Power	HMI TOUCH SCREENS	- Ethernet, Modbus, 4,7,10 Inch
ELECTRICITY METERS	- I, V, kW, kWh, kvar, kvarh, PF, Freq, THD, Pulse, Comms, Load Shedding - Panel & Din Mount Type	TEMP. CONTROLLERS	- Shinko, Single / Multi-Point - Pattern Control

## POWER SUPPLIES / SIGNAL CONDITIONERS / MONITORING RELAYS

CURRENT TRIP MODULES	- Measurement / Alarm	SENSOR POWER SUPPLY	- +/- 15v for Hall Effect Sensors
LOOP POWER SUPPLIES	- Process type, 24V/ 4 - 20mA	TEMPERATURE TRANSMTR	- Thermocouple / RTD
MONITORING RELAYS	- V, I, Watts, Temp, Level etc.	VOLTAGE TRIP MODULES	- Measurement / Alarm
		SIGNAL CONDITIONERS	- DC/AC, I/V, Trip/Reset and Alarms

## SENSORS / PROBES / TRANSDUCERS

CURRENT AC / DC	- Hall Effect Sensors, CT types	RELATIVE HUMIDITY	- Room/Duct Sensors
DCCT's	- Hall Effect Sensors	TEMPERATURE	- Thermocouples, RTD's, Infra-Red
LEVEL	- Paddle Switch Type	VOLTAGE AC / DC	- Hall Effect Sensors, VT types
POWER (kW, kWh, kVa,kVarh)	- Process Level O/P and Pulse		- Oztherm (Fastron in-house design)

## POWER SEMICONDUCTOR HEAT-SINK ASSEMBLIES AND ACCESSORIES

HEAT SINK ASSEMBLIES	- AC, Single/ 3 Phase & multi-phase - DC Bridge and DC switch - Convection, Fan forced, oil or water cooled	WATER COOLERS	- Non-isolated & Isolated water path
		SEMICONDUCTOR CLAMPS	- Single and Double sided
		SNUBBERS	- AC Single / 3 Phase / DC
		DC SUBSTATION DIODES	- Blocking Diode Cubicles

## SOLID STATE SWITCHES AND POWER CONTROLLERS

SOLID STATE CONTACTORS	- AC/DC Input or Output - Single, 3 Phase - Solid State Relay & Thyristor Types.	THYRISTOR CONTROLLER (SCR)	- Single & 3 Phase - Phase Angle, Burst Control - OZtherm & Advanced Energy - SSR or SCR Technology
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## SOLUTIONS

ENERGY MONITORING & ENVIRONMENT	- Environmental monitoring solutions - Cloud or local data collection options - Real-time monitoring and profiling - IOT Solutions and Hardware - Crouzet Smartphone PLC app - RS485 MOBUS / Ethernet TCP/IP Comms	DATA ACQUISITION	- Electrical and Process Parameters
		TEMPERATURE MONITORING & CONTROL	- Single and Multi-point - Pattern Control
		DATA LOGGING	- Historical Analysis/Trends
POWER QUALITY	- EMC Filters, Output Filters, Power Analyser - Active Harmonic Filters, Reactors	POWER FACTOR	- Smart Capacitor Bank, Substations - Thyristor Based & SVG Inverters

## SYSTEMS SOLUTIONS & ENGINEERING SERVICES

### ENERGY MONITORING, POWER ELECTRONICS, AUTOMATION, ENVIRONMENT

- # ENERGY MONITORING, POWER QUALITY, DATA ACQUISITION, ELECTRICAL & PROCESS MEASUREMENT SOLUTIONS
- # PROGRAMABLE LOGIC CONTROLLERS, HMI TOUCH SCREENS, TEMPERATURE, HUMIDITY, AND LIGHT SENSORS
- # PRODUCT DESIGN AND DEVELOPMENT; CONTROL CUBICLE DESIGN, ASSEMBLY AND TESTING
- # APPLICATIONS ENGINEERING AND CONSULTANCY
- # POWER SEMICONDUCTOR REPLACEMENT; TESTING AND MATCHING TO CRITICAL PARAMETERS
- # REPAIR & REFURBISHMENT OF SEMICONDUCTOR ASSEMBLIES & POWER ELECTRONIC EQUIPMENT
- # REPAIR, TESTING, UPGRADE AND TRAINING ON ALL PRODUCTS

**Fastron**  
Electronics

ABN: 38 622 808 137

32 Shearson Cres Mentone  
Victoria, Australia 3194  
Email: sales@fastron.com.au

Tel: +61-3-9763 5155

Web: www.fastron.com.au

# PROUDLY SUPPORTING

	<p>Digital Multimeters &amp; Electrical Testers, Thermometers, Earth Leakage Clamps and Meters, Current/Power Clamps, Vane Anemometers, Light /Moisture Meters, PH/TDS Meters, CO2/Temp/Humidity Monitors, Laboratory Multimeters &amp; Power Supplies, Thickness Gauge, Pressure or Sound Meter, Lazer Distance</p>
	<p>Monitoring Relays, Programmable Logic Controllers(PLC), Smart Relays, HMI Touch Screens, Encoders, Brushless DC Motors, Motor Controllers, Smartphone/Tablet PLC apps, Solenoid/Valve Switches</p>
	<p>PID Temperature/Humidity Controllers &amp; Sensors (ANSI, CE, ROHS), Mechanical Relays (UL,CE,ROHS), Solid State Relays(CE,PICC), Solid State Contactors, Split Core Current Transformers, SCR Power Controllers, Voltage Regulators, Power Factor Capacitor Banks, Static Var Compensators, Active Harmonic Filters, Smart Grid Current Transducers, Low Voltage Switchgear, Contactors, Enclosures</p>
	<p>DC Contactors for Automotive, Renewables, Aviation, and Military Industries, High Voltage, High Current, PWM Rated, Hermetically Sealed (IP67K, UL, CE)</p>
	<p>Thyro S, Thyro A, Thyro A+, Thyro PX SCR Power Controllers with Profibus, Rockwell Support, Precision High Voltage Power Supplies, Precision Low Current Power Supplies, Phototonic Sensors, Pyrometers</p>
	<p>Discretes, IGBTs, Power Modules, Bridge Rectifiers &amp; AC Controllers, Thyristor and Diode modules, Specialist Semiconductors including Silicone carbide</p>
	<p>IGBTs, Power Modules, Bridge Rectifiers &amp; AC Controllers, Thyristor and Diode modules, IGBT driver boards, Stacks and Assemblies.</p>
	<p>Monitoring, Control and Measurement of electrical parameters related to Energy Monitoring and Power Quality including Power Factor Correction products. Single and 3 phase Energy Meters, Measuring Centres and Network Analyzers with MiQEN and MiSMART software; Measuring Transducers. MV and LV, PFC capacitors and contactors. DC Link capacitors. Synchronisation Meters.</p>
	<p>Low and Medium Voltage Power Factor Correction, and Induction Heating Capacitors, Controllers, Thyristor Switches, DC Link/Film Capacitors, AC Heavy Duty Capacitors, Box Capacitors, Customised or Standard sizes., 3 Phase Filter Capacitors, MV Capacitors, Capacitor Contactors, Discharge Resistors and Devices</p>
	<p>Power Capacitors for Critical Applications and Extreme Environments such as Railways including Snubber Energy Absorbers (Kondensator), High end Electrolytic Capacitors (Audio, Automotive).</p>
	<p>Voltage &amp; Current Transducers for Industrial Drives, Robots &amp; Cranes, Cable Cars &amp; Ski Lifts, Elevators &amp; Escalators, Ventilation &amp; Conditioning, Medical Systems and Power Supplies for Computer &amp; Mobile Systems. Rogowski Coils, EV Current Sensors, CAN BUS Enabled Sensors, Digital Current Transducers</p>
	<p>Rope CT's, Rogowski Coils with Integrators, Standalone Integrators, Teardrop Coils, Standard CT's, Pulse CT's, Hall Effect CT's, Signal Conditioners, Voltage Transducers.</p>
	<p>Electricity Measurement, including Voltage, Current, Power, Power Factor, Total Harmonic Distortion, with analogue outputs and MODBUS / Ethernet communications available for all of your energy measurement requirements. Current and Voltage Transducers, Clamp on Current Sensors.</p>
	<p>SCR (Thyristor) Power Controllers complete with Control Electronics and Power Semiconductor heat sink assembly, (Phase Angle, Burst Firing, ON/OFF switching) Solid State Contactors, Signal Conditioners and custom products. <b>Designed and Manufactured in Australia</b></p>
	<p>3 Phase and Single Phase, Diode or Controlled Bridge Rectifiers for AC/DC motor drives, Welding, Power Supplies, and UPS, used in Temperature, Medical, Traffic Signals, and Home Appliance Applications.</p>
	<p>Programmable Logic Controllers(PLC), Smart Relays, Temperature Controllers and Control Relays, Current and Voltage Monitoring Relays, Current Switches, Hour Meters, Signal Conditioners, Insulation Monitors.</p>
	<p>NMI Approved Market Grade Meters, NMI Approved Sub Meters, LCD/LED Digital Panel Meters, Single and 3 Phase Transducers, Rogowski Coil Meters, Power Analysers, TFT Screen Meters</p>
	<p>CT's, Shunts, Signal Conditioners, Electrical Energy Meters and Software Systems Solutions for Measurement, Test and Energy Management applications in the industrial, commercial and government sectors.</p>
	<p>Noise Suppression, Chokes, EMC Filters, Input Filter, Pulse Transformers, Metal Switches, Membrane Switches, Power Distribution Units, IEC Inlets/Outlets, Ganged Outlets, Rewirable Plugs and Sockets</p>
	<p>Solid State Relays, I/O Modules, Filters, Heat Sinks, Din Rail Mounting systems, for low power and high power electrical switching and control applications. SCR/Diode Bridges and Modules. <b>crydom</b></p>
	<p>KWh Meters, NMI Approved Sub Meters, Direct Connect or CT Operated, Wireless kWh Meters (LoraWan) Split Core CT's, Dual 3 Phase, Tri 3 Phase, and Quad 3 Phase Meters.</p>
	<p>PID Temperature/Humidity Controllers, Temperature and Humidity Sensors, Recorders, Proximity Sensors, Micoswitches, Sensor/Encoder,Solid State Relay, Thyristor (SCR) Controllers, Counter/Timers, Switches</p>
	<p>Semiconductor Fuses (gR, aR, GpV, Class J). <b>Designed and Distributed by Fastron Electronics</b>; Surge Protection Devices, Push Button Switches, Toggle Switches, Rotary/CAM Switches, Metal Line Switches/Key Switches</p>
	<p>High Energy Varistors and Thermal Disconnects for Voltage Transient Suppression. Strikesorb Lightning Arrestors for AC/DC and PV Applications, SPD's, SPD Test Equipment, Substation Protection </p>