



# Temtec

## Controls Pty Ltd

2021 Catalogue





# Company Profile

Temtec Controls is a privately owned company based in Melbourne, Australia specialising in the Manufacturing and supply of Components, Products and Solutions to the Energy Monitoring, Power Electronics, Power Quality, Process Control, E-Mobility, and Electrical Instrumentation markets.

## We Are:

Manufacturers, importers, design/development and consulting engineers in electrical, electronic and systems solution disciplines.

## Temtec Controls expertise reflects up to 40 years experience in:

- Power Control, Process Control & Automation
- Switchgear (LV,MV,HV)
- Power Electronics Components & Assemblies
- Heatsink and Cooling
- Energy Management
- Electrical Measurement & Test
- Electrical Protection
- Power Quality
- E-Mobility

## Our Mission:

- To select the most suitable components, products or engineered solutions to meet and potentially exceed our customers requirements in an unbiased and professional manner.
- To be actively involved in improving the reliability and energy efficiency of power conversion equipment, temperature and electric heating controls.
- To promote Energy Monitoring and Management solutions as the means to benchmark,



## Temperature/Humidity Controllers



**Fastron**  
Electronics

**TriHero**

**Shinjo**

**Panel Mount** - 48x48mm, 96x48mm,  
48x96mm, 72x72mm, 96x96mm

**Din Rail Mount** - 22.5 x 75mm Dual Input/Dual  
Output options, 5 Amp Relay Alarm Output

**Dual Input and Dual Output** versions

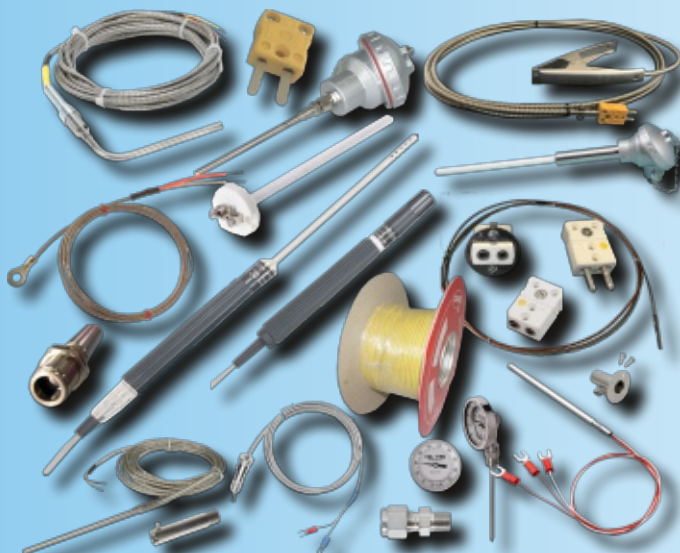
**Step Control** - Included as standard

**Pattern/Kiln Controllers** - Up to 10 Steps, 10  
Patterns

**HVAC/Brewery/Servo/Valve** - Low Cost SCR  
Controllers with integrated PID loop

**CE and UL**

## Industrial Temperature & Humidity Sensors



**Fastron**  
Electronics



**TAISUO**

**MIMS Resistance Temperature Detector**  
(RTD) - Standard ranges in stock

**MIMS Thermocouples** - Type K, Type R, Type S  
(stocked)

**EGT Sensors** - Inconel 600 (Stocked)

**Plastic Industry** - Type K with two pin Bayonet  
fitting (Stocked)

**Pipe/Clamp style** - Made to order

**Machine/Bolt Style** - Type K (Made to order)

**Accessories** - BSP, Bayonet, Flange Fittings,  
TC Cable

**Virtually any style made to order**

**CE, ANSI and ROHS**

## Timers, Time Relays & Time Switches



**DIN Rail Mount Analogue** - Single and Dual  
Timers, Multifunction, Delay ON/OFF,  
Assymmetric, Staircase, Double Delay, Memory,  
Latching, Delay On Star Delta

**Din Rail Mount Digital Time Switch** - Daily/  
Weekly, Monthly, Yearly, Dual and Astronomical  
Types with 100 Programs and removable  
battery

**Panel Mount Digital Timers** - Single and Dual  
Output Types, 9999 Hr timing range.

**Fastron**  
Electronics

**CROUZET**  
AUTOMATION

**Iskra**

**CE/UL**



## Programmable Logic Controllers & HMI Touch Screens



**Miniature PLC** - Din Rail Mount, 3 Ranges with various Configurations, Millenium 3, Millenium EVO, EM4

**I/O** - 10/12 Input 4 Output, 14 Input 10 Output Expandable to a maximum of 54 I/O

**Communcation** - RS485, Ethernet, Bluetooth, 3G, Wifi

**HMI Touch Screen** - Essential ( 4 or 7 Inch & Dual RS485 Comms), Performance ( 4,7 or 10 Inch Ethernet & RS485 included VNC Server)  
**CE/UL ROHS**

## Signal Conditioners/Transmitters/Transducers



**Voltage & Phase Moitoring Relays** - High performance, and low cost types

**Current Monitoring Relays** - Single and 3 Phase, AC & DC Custom made types available

**Speed Monitoring Relays** - For Motor Speed Monitoring and Control

**Motor Protection Relays** - Mechanical Circuit Breakers (Thermal or Thermal and Magnetic)

**Tank Level Control Relays** - Low cost

**Signal Conditioners/Transmitters** - Process Levels or AC/DC Current/Voltages

**Oil Pressure/Temperature Transducers** - For Compressors or Chillers

**CE/UL**

## Motors, Starter Motors, Alternators, Encoders



**Motor Contactors** - DIN Rail Mount AC/DC Motor Contactors, DC PWM Rated Contactors (up to IP67K), Aviation and Milspec types

**Speed Monitoring Relays** - For Motor Speed Monitoring and Control

**Encoders** - State of the art industrial postitoning and speed encoders for utilities

**Electric Motors** - Starter Motors, AC & DC Motors, Alternators, BLP Motors, and Electrical Drives ordered on request.

**Replacement Brushes** - MAHLE, Letrika, Iskra

**CE/UL**



## Phase Angle/Burst SCR Power Controllers



### World Leading SCR Controllers -

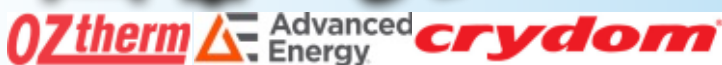
AE(AEG)Thyro S, Thyro A, Thyro AX, Thyro PX

**Din Rail Mount** - SCR and SSR Based models

**100% Australian Made** - Oztherm F330, F430, F431, F311, F312 Series

**Pulse Transformers** - For reliable switching of semiconductor gates

**HVAC Controllers** - SSR and SCR Based, PWM Controller, Compact with Display



CE and UL

## Power Factor Correction



**Power Factor Correction Capacitors** - Single Phase and 3 Phase 440/525V 5 kVar to 40 kVar

Dry Type kept in stock, Gas Filled and Dry Type

**Power Factor Correction Controllers** up to 12 Steps, Basic and Logging types

**Capacitor Duty Contactors** - 12 kVar to 50 kVar with Aux Contacts kept in stock

**Smart Capacitor Banks** - 100% Australian Made up to 600kVar with low lead time

**Power Quality Meters and Transducers** - Panel Mount, DIN Rail, lot Loggers with Email and Relay Alarms, and in built Web Page  
**CE, ANSI and ROHS**



## EMC Filters, Chokes, Pulse Transformers & IEC Inlets



**EMC(RFI) Line Filters** - Single and 3 Phase, 1 and 2 Stage, Low Leakage, Medical Grade, Assymetric and Symmetric Attenuation

**IEC Inlets** - With or Without EMC(RFI) Filter, Fuse(s), Switch or Illumination

**Chokes** - Limited Range of Chokes for Line Attenuation

**Pulse Transformers** - For optimum low EMC switching of devices.

**Appliance Fuses & Fuse Holders** - Time Lag (Slow Blow), Fast Acting types up to 30 Amp.

**CE/UL**

## Power Capacitors



### Low Voltage Power Factor Correction

**Capacitors** - 440/525VAC 5kVar to 50kVar types with triples safety feature.

**Medium Voltage** - 22kV, 400kVar capacitors made to order for indoor or outdoor use

**Induction Heating** - All Types Made to order

**Snubber/Absorbion (Kondensator)** -

Railways grade, standard and custom made types

**DC Link and Electrolytic** - Project qty's on request

**CE/UL/ROHS**

## Power Semiconductors



**Bridge Rectifiers** - Single and 3 Phase, Half Controlled, Braking Diode, Welder Types

**Isolated Power Modules** - Diodes, SCR's, Hybrid, IGBT's, Fast and Standard Types

**Stud Mount Devices** - Metric and Imperial Diodes, SCR's, Flat Base, Rotating, Fast and Standard Types

**Capsule (PUK) Devices** - Diodes, SCR's, GTO's, Fast and Standard Types.

**Press Fit Diodes** - Diode Pellets, Welding Diode Capsules, Press Fit (Button) Diodes

**Part Cross Reference & Alternative**

**Sourcing Specialist**

**CE/UL/ROHS**

## Solid State Relays



**DIN Rail Mount** - AC or DC Control, AC or DC Switching types with heatsink

**Panel Mount** - AC or DC Control, AC or DC Switching types for mounting onto heatsink

**Solid State Contactors** - For Single and 3 Phase Heatsink Applications

**Solid State Motor Contactors** - 3 Phase, 7.6, and 18/20 Amps Forward and Reversing Types

**PCB Mount SSR's** - SIP, 5 Pin Socket, and Input/Output Modules

**5 Pin Socket Mount** - For Standard Relay Sockets

**CE/UL & ROHS**



## Industrial Current & Voltage Transducers



### Current Sensors with Process Outputs -

Compact Designs for Process Automation, Data Logging, and Control Systems

### Solid and Split Core Current Sensors -

Busbar Mount, Panel Mount, DIN Rail Mount

### AC/DC Current and Voltage Sensors -

Bidirectional Instantaneous, and Signal Conditioned Types

### High Isolation & Operating Ranges - MV

Isolated Voltage or Measurement up to 6.4kV, 20,000 Amp AC or DC

**CE/UL/ROHS**

## Solid State Contactors



**Natural and Fan Cooled** - Contactor Output Ratings @ 50 Deg C Ambient

**Various Control Input Types** - 24VAC, 3-32VDC, or 90-280VAC

**Wide Range of Load Current/Voltage** - 24-660VAC, 13-500 Amp Single or 3 Phase

**Two SSR Configurations** - Solid State Relay or Contactor Style Modules

**Crydom or Fastron SSR** - Crydom for UL requirement, or Fastron lower cost SSR for CE Requirement

**Custom and Standard Models Available** - To suit customer requirements, available space

**CE/UL/ROHS**

## Power Supplies



**Din Rail Mount** - Plastic or metal framed types

**Open Frame** - Open Frame OEM style,

**Bipolar Power Supplies** - To suit LEM or other Hall Effect Sensors and Transducers

**Plug Packs** - Convenient GPO Mounted Plug Pack Style

**Panel Mount** - Available on Request

**Custom Power Supplies** - Available on Request

**AC to DC Rectifiers** - Custom made on request for heavy industrial applications and retrofit

Controlled Rectifiers - For Electrolysis

**CE/UL/ROHS**

## Revenue Grade Utility, ICG, Tariff Meters



**Revenue Meters** - Single and 3 Phase (ME172 & ME174), with TOU, RS485, Optical Port, Extended Load Profile, PV Friendly, Import/Export, "No power reading" functionality, Optional Digital I/O, 5 Years backup, Tariff Schemes, up to 120 Amp direct connect

**Smart Meter** - AM550 DLMS 0/1 Supported, M-Bus (wired or wireless), SSR/Relay Output options, Supercap or removable battery

**ICG Meters** - MT880/MT860 Industrial Power Quality Meter, and Tariff Meter

**NMI Pattern Approved**

## Power, Current, Voltage Meters



**Digital Voltmeters and Ammeters** - Wide range of input options, CT Current, 4-20mA inputs with optional Relay Alarms and Retransmission output. Dual Display and LCD (non backlit) options. Up to 600VAC/DC

**Analogue Voltmeters and Ammeters** - Direct or CT Connected, Dual Parameter, Voltage Ranges up to 690VAC/DC

**Hour Meters** - Round or Square faced with various cutout sizes, IP54

**Indicators** - Temperature or Proportional scalable indicators with Red/Green or White/green LED Displays

**CE and UL**

## Test & Measurement



**Portable Meters** - Clamp Meters, Multimeters, Power Quality Analyser/Logger, Thermometer

**High Precision Current Sensors** - For Compliance or Medical equipment

**Synchronometers** - For monitoring and control of Gas/Diesel gensets

**Hand Held Clamp on Current Sensors** - For testing and analysis purposes

**High Precision Potentiometers** - For high precision test and calibration equipment

**Power Semiconductor Testers** - Portable, Laboratory, or Production Line models

**CE and UL**



## Railway Current and Voltage



**Hall Effect Current Transducers** - AC and DC Measurement 0-5V, +/-4V, Rm(Current) outputs

**Hall Effect Voltage Transducers** - AC and DC Low and Medium Voltage Measurement 0-5V, +/-4V, Rm(Current) outputs

**Signal Conditioned Transducers** - Standard process outputs

**Differential Current Transducer** - For earth leakage measurement devices

**CE and UL**

## Power Meters & Power Quality Analysers



**kWh Submeters** - kWh Meters, Network Recorders, Network Analysers, Power Quality Analysers, Class 0.1 to Class 1 with Various Comms, Din Rail and Panel Mount

**Current Transformer** - Direct, 0.333V, 1/5 Amp

**Modular kWh Meters** - Major Cost and space savings

**EV Charger Meters** - AC, and DC Meters with PTB (Eichrect) Certification

**Network Recorders** - Wide range of Input Options Galvanic Isolation, Process Outputs

**Power Quality Analysers** - Class A  
**CE/UL**



## Current Transformers



**Solid Core Current Transformers** - Class 0.2(S), 0.5(S), 1, moulded style

**Split Core Current Transformers** - Clip, Snap, Screw on and busbar mount styles, encapsulated and moulded types

**Signal Conditioned Output** - Solid and Split Core ranges

**Rogowski Coils** - Class 1 and Class 0.5, True RMS conditioned output, adjustable sensitivity

**Hand Held Clamp on Current Sensors** - For testing and analysis purposes

Output Standards - 0.333V, 1/5 Amp, or Custom models on request

**CE, ANSI and ROHS**



## Mechanical Relays & Bistable Switches



**Fastron**  
Electronics

**Iskra**

**Trent**

**Subminiature Relays** - PCB or DIN Rail Mount with large flat pins

Single Pole 5 Pin 1 x 12 Amp SPDT Form C

Two Pole 8 Pin 2 x 10 Amps (DPDT) Form C

Four Pole 14 Pin 4 x 5 Amp SPDT Form C

**Latched Relays/Bistable Switches** - Position Indicator, No Hold Consumption, up to 80 Amp Ratings, Manual Switch, Modbus BiCom Versions

**Slim Relays** - PCB or DIN Rail Mount with 12-24VAC/DC or 240VAC Inputs

**Relays Bases** - Sold Separately

**CE/UL and ROHS**

## Contactors



**GIGAVAC**  
ADVANCED SWITCHING SOLUTIONS

**Iskra**

**Din Rail Mount Contactors** - Ratings up to 1100 Amp Per Phase, Motor Duty Contactors

**Control Input Ranges** - 24VAC, 24VDC, 415VAC, 240VAC, 220VDC

**Capacitor Duty Contactors** - For Extremely High Inductive or Capacitive Loads

**Thermal Overload Relays** - Adjustable type for Mounted on Contactor Output Contacts

**Auxilliary Contacts** - Snap on Single or Multi Pole

**Hermetially Sealed Types** - IP67K, PWM Rated Coils, Designed for DC & AC Loads  
Milspec & Aviation - High reliability versions for Military, Electric Vehicle and Aviation Markets

**CE/UL and ROHS**

## Switches for HMI and Appliances



**SCHURTER**  
ELECTRONIC COMPONENTS

**Richon**  
electric

**Thermal & Magnetic Circuit Breakers** -

Manual and Automatic Reset Types, Optional Aux Contact, Various Mounting Types, Ratings up to 16 Amp, 28VDC

**Thermoplastic Membrane Switches** - HMI User Panels, Low Resistance, 48VDC 100mA, Standard and Custom Printed Versions

**Piezo Switches** - Metal Line, Touch Sensitive, 48VDC 100mA, Long Life, Ring, Point or Button Illuminated and Standard/Custom Engraved

**Metal Line Switches** - Switches with Latching or Non Latching Relay, 240VAC, 10 Amp, Illuminated or Standard/Custom Engraved

**CE/UL and ROHS**



## Semiconductor and Solar Fuses



**BS88 Fuse Links (aR)** - Most Popular models kept in stock up to 700 Amp with mounting kits

**Cartridge Fuses (gR)** - versions

**NH European Style Fuses (aR,gG)** - 78mm, 108mm Bussmann Equivalents

**Appliance Fuses - Time Lag (Slow Blow) and Solar Fuses (gPV, Type J)** - 10.3x38mm

Ratings for 1000VDC, 275VAC, 1 to 50 Amp

**Fuse Holders and Standoffs** - Din Rail (Cartridge) and Panel Mount (NH, BS88)

**CE/UL and ROHS**

## Surge Protection Devices



**Metal Oxide Varistors(MOV)** - Up to 680VAC kept in stock (1100VAC on request)

GDT's

**Surge Protection Devices(SPD)** - Main/Sub Boards versions, 1, 2 and 3 Pole modular options, Type 1, 2/ B, C Class I, II. MOV and GDT, L/N-PE, L-PEN, L-N, L-PE

**Snubber Capacitors** - LV to MV Range, Railway Grade, High Overload, AC and DC

**Thermal Circuit Breakers** - HMI Appliances

**Transient Supression Resistors** - For continuous voltage clamping in drives

**Low Voltage Switchgear** - See Next Category  
**CE/UL and ROHS**

## Electrical Wholesale Components



**Moulded Case Circuit Breakers (MCCB)** -

Ratings for 690VAC and 1250 Amp, Fixed, Adjustable, and Electronic Types

**Circuit Breakers (MCB)** - AC Types 1 to 120 Amp 230/400VAC Rated, DC Types 1 to 63 Amp 400VDC Rated

**Twilight Switches** - Timers with light detection

**Residual Current Circuit Breakers (RCD)** - 100 Amp 230/400VAC Rated

**Residual Current Circuit Breakers with Overcurrent Detection (RCBO)** - 40 Amp, 230/400VAC

**Disconnect Switches** - For Solar or Industry

**Busbar Systems** - To suit our range

**Enclosures** - 4 to 36 DIN, IP65/40  
**CE/VDE/GHOST**

## Communication Accessories



### **Industrial Communication Gateways -**

RS485, Ethernet, RS232, USB Converters

**Remote Web Server Datalogger** - Mini web server with 1 or 8GB storage

**Remote Alarming System** - Email, Digital or Relay Output remote Alarming Devices.

**Thyro Series Anybus Interface** - Profibus, Profinet, EthernetIP, EtherCAT, Modbus RTU

**Energy Management Software** - Fastron Ergo and Iskra Miquen scalable software system.

**CE and UL Approved**

## E-Mobility & Renewables



**Home EV Charger (AC)** - Standard ranges up to 22kW 3 Phase or BiPhase

**Public EV Charger (DC)** - 160kW versions for Rapid Charging Networks

**EV Charging Systems** - Secure EV Charging, Payment and Notification System

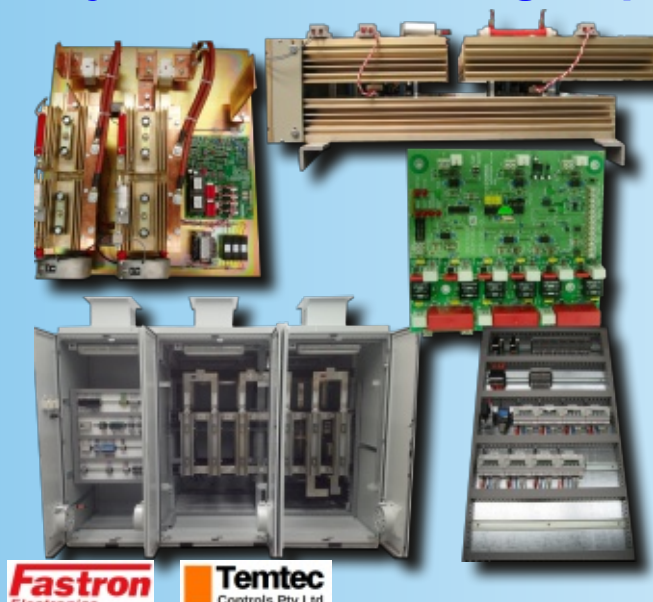
**Hall Effect Current Sensors** - Dual Range(DHAB), and Can Bus Types(CAB)

**Automotive gR Fuses** - Ratings up to 200 Amp 60VDC with Enclosed Fuse Holders

**Gigavac DC Contactors** - 1000 Amp and 90kV Ratings IP67

**CE, ANSI and ROHS Approved**

## Project/Manufacturing Capabilities



**Rectifier Design** - Forward/reversing types

**DC Substation Blocking Diodes** - Proven Railway Designs with redundancy

**Rectifier Exciter Cubicles** - Power stations

**Power Factor Correction Capacitor Banks** - 100kVAr - 600kVar

**Snubber Panels** - Supression Panels

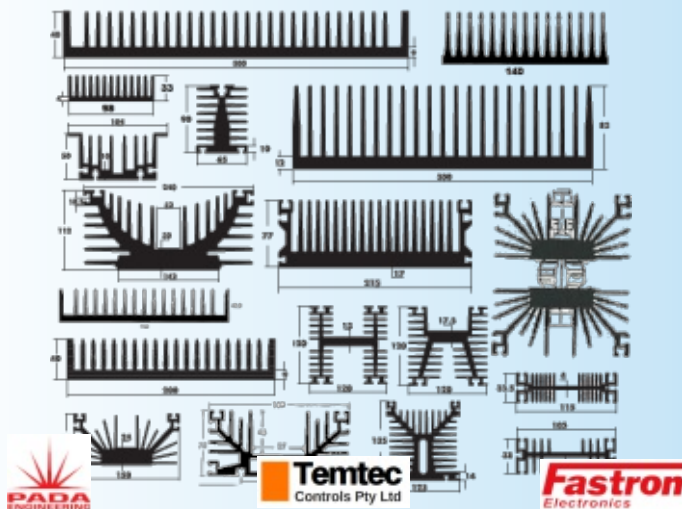
**Heating Control Cubicles** - SCR Controller, Contactor, Relay, PID Controller Systems

**PLC Systems** - Custom PLC Projects using Crouzet Automation min PLC, 54 I/O Maximum

**Metering Panels** - Design and assembly or kitting



## Heatsink



**Extruded** - Most popular styles kept in stock and made to order.

**High Dissipation** - Bonded and extruded types, single and double sided

**Din Rail or Panel Mount** - For all types of semiconductor mounting

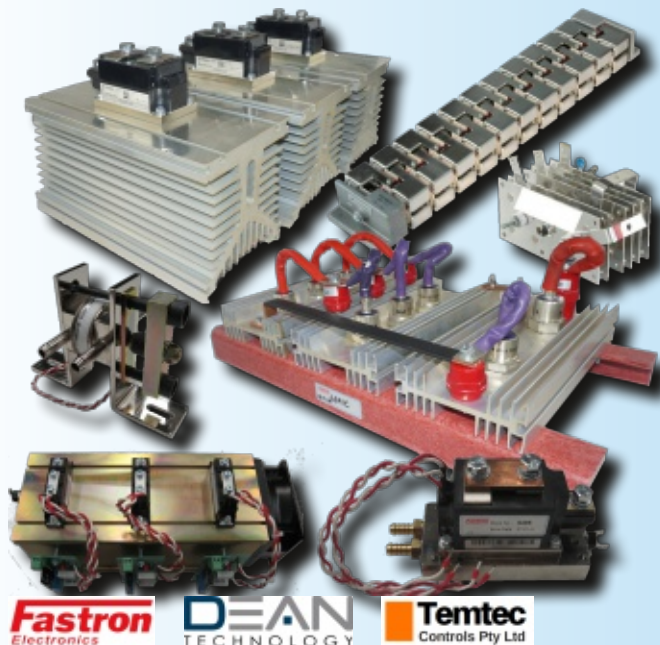
**Fan Cooled** - For 92mm, 120mm, 150mm fans

**Water Cooled** - Various configurations for extreme applications

**Machining Services** - Milling, drilling,

alodining **Heatsink Design** - Custom heatsink

## Semiconductor Assemblies



**Bridge Rectifiers** - Single, 3 Phase, 6 or 12 Pulse with or without IPT Transformer

**Blocking Diodes** - For Datacenter Online Protection, Substation Fault Protection

**Water Cooled** - For welders, or extremely demanding applications

**Button/Pellet Diode Assemblies** - Air Cooled, Low Cost, Up to

**AC Switches** - For ON/OFF or Phase Control of extremely high powered applications

**High Voltage Diode Arrays** - For Electrostatic Precipitators or similar.

**CE, ANSI and ROHS Approved**

## Cooling Accessories



**Fans for Heatsink** - Ballbearing Fans for standard heatsink sizes 60x60mm, 80x80mm, 92x92mm, 120x120mm, 150x150mm

**Fan Cooled Heatsink** - Various sizes for almost any application, 117 x 150mm, 117 x 168mm, 125x125mm.

**Thermal Paste for Heatsink** - Wolfracoat C Conductive lubricating paste 400gm and 1.2kg, and small non conductive paste packs

**Thermal Bimetal Switches** - Normally Open or Normally Closed, 70 to 150 Deg C Double and Single Sided Clamps

**Clamps for Capsule Devices** - Insulated, Double Sided and Single Sided (Box Clamp)

**Water Coolers** - For Isolated Modules or Capsule Devices



## 2021 Catalogue

*Expect Nothing Less  
than the Best!*

*For specific or general  
enquiries, please contact our  
friendly sales team*



- Power Semiconductors
- Electrical Measurement
- Process Control

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