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# POWER CONTRACTORS (PTY) LTD

Reg. No. 1950/035961/07 VAT Reg. No. 4660104318

## ELECTRICAL ENGINEERS

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14 September 2016

## COMPANY PROFILE

Power Contractors has been in business for more than 65 years. Its success is due to the quality German Engineering background and customer focus it has been building on all of these years. We are a leading manufacturer of specialized Electrical Transducers in South Africa - initially in the heavy current field and now primarily in electrical measuring transducers, quality panel meters – both analogue and digital. We also offer Electrical Engineering Services from Draughting and Design to Panel Building and Plant Installation and Commissioning.

### WHO WE ARE – OUR MISSION

Our Mission is to design and manufacture high quality engineered solutions for our customers. We are interested in long term relationships with our customers and therefore strive to maintain ongoing improvement. We have registered Professional Engineers ready to engineer a solution for you.

### SOME BACKGROUND

Power Contractors was established in 1950 by the brothers Gerhard and Heinz Waurick. In those early days most of the work done was in the field of heavy current electrical engineering and the Company soon gained an excellent reputation for its innovative approach to projects involving alternator control panels, low and medium voltage distribution boards and automatic control systems. A keen interest in the small-scale generation of power, especially hydro, was already established in those days, an interest which still exists today.

Right from the start agency agreements were concluded with several German Manufacturers, including Gossen (Now Gilgen Muller Wiegert or GMW) and Weigel and HVR International for the VDR Range of surge protection systems.

In 1972 Peter Waurick, joined the Company and the emphasis moved gradually towards electronic measuring techniques, especially transducers. Projects handled were mainly in the field of instrumentation, measurement and maximum demand control. Heavy current work has been done on many sites throughout South Africa over the years and we still support a number of Hydro Electric Power Stations in South Africa and Swaziland.

The present owners Leon Clulee and Lyndsey Bielich joined the company in 2015. We are intent on expanding our current product range and offering more quality engineering design and project solutions. We have a dynamic team of staff available for Electrical Engineering. We are affiliated to the Engineering Council of South Africa for our Professional Engineers, the South African Institute of Electrical Engineers, and have expertise with Government Certificates of Competence.



## **PRODUCTS OFFERED:**

We offer a range of products that are manufactured in-house and imported from reputable suppliers, that go hand in hand with our Electrical Engineering Design and Manufacturing and Installation Services.

## **TRANSDUCERS**

We manufacture the **POWERCON** range of electrical Transducers including AC and DC Current & Voltage Transducers, Phase Angle Transducers (relating to power factor), Temperature Transducers (Thermocouple and RTD (PT100)), Resistance Transducers, Frequency Transducers and Active Power, Apparent Power and Reactive Power Transducers amongst others.

## **PANEL METERS**

We started importing quality instruments in the 1950s, and have developed specialized expertise and testing equipment over this time. We supply a full range of quality analogue and digital panel meters. These typically include Moving Iron and Moving Coil Voltmeters and Ammeters, 250° instruments, Maximum Demand Ammeters, Power Factor Meters, Frequency Meters, Wattmeters, and Messcontactor Contact Making Instruments. We also do Digital instruments and Synchronizing instruments. We have facilities to test and calibrate all the instruments in-house.

## **SEDEMAC GENERATOR CONTROLLERS**

We are currently the agent for Sedemac, a producer of quality Digital Generator Controllers. These controllers have a few special features that make them competitive in the generator manufacturing market, and especially for the BTS (Baseload Transmitter Station) Industry for the Cellular Telephone GSM network where we offer a special fuel saving feature that allows the engine to change speed depending on load for frequency independent AC loads.

## **VOLTAGE DEPENDANT RESISTORS (VDRs)**

We supply a range of Silicone Carbide Varistors for high performance that are used mainly in electromechanical engineering as protection against over-voltages in field windings of DC machines, chokes and hoisting magnets. The VDRs configuration is adapted to suit each particular case.

## **CONTROL SYSTEMS AND R&D DESIGNS**

We have been involved in most of the smaller (less than 2 MW) Hydroelectric Power Stations in Southern Africa, for more than 75 years and still express an interest in this type of power station control today. We are ideally suited to manufacturing Prototype Control Systems for a variety of applications, including Building Management, Advanced Diesel Generator Control, Load Shedding Control, Solar Energy, Telemetry, GSM and Radio linked Control Systems, Fish farming and Process Control Solutions, including Chemical Plants. We have also developed a range of affordable Power and Energy Meters that can do single phase power measurements and three phase power measurements with data logging capabilities. We also offer an Engineering Design and Draughting service for drawings and design using CAD (computer aided design). We have the ability to Manufacture Electrical Panels and also do onsite Electrical installations.