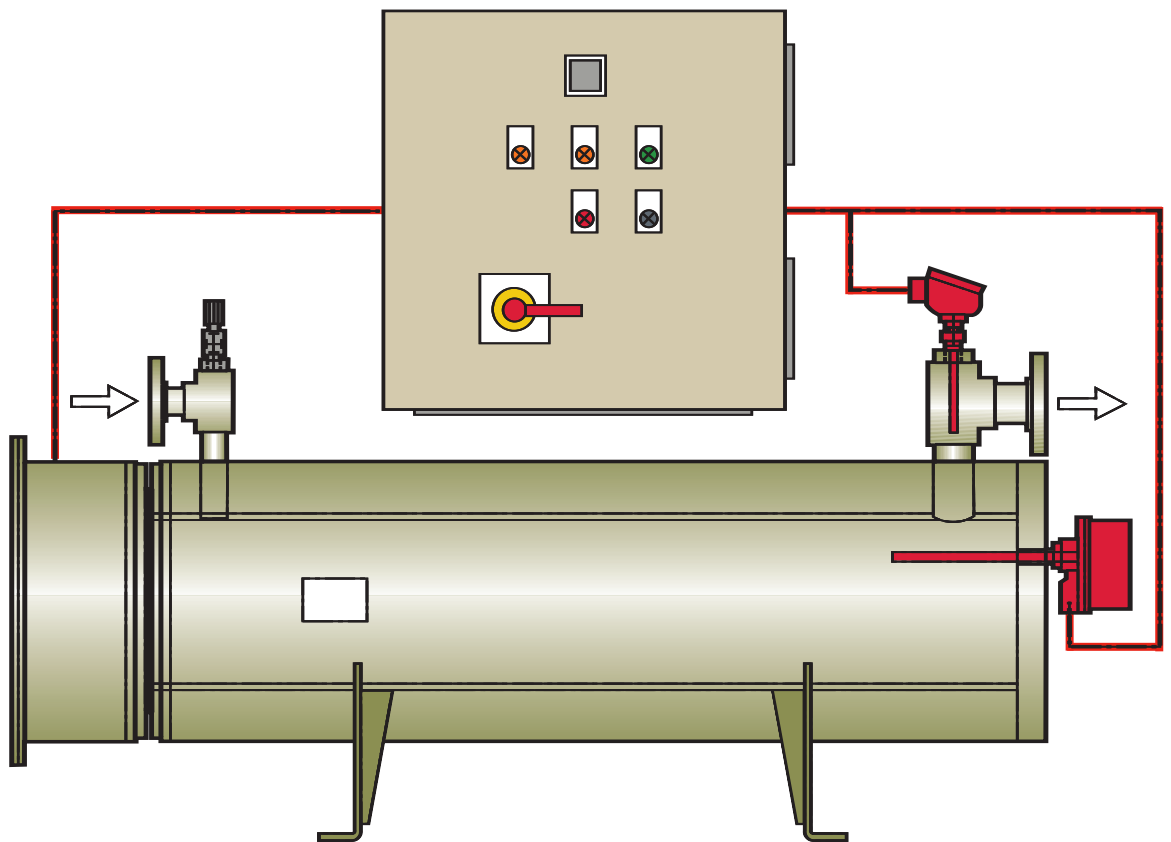




idcom

Midland Combustion Electric Panels



Midcom design and manufacture a wide range of **Electric Control Panels** for their range of Electric Heaters, Pumping systems and Packaged equipment. In particular their Heaters range from **1kW** through to **2000kW** and the appropriate Control Panels and Integrated systems can be supplied. The operation of the Electric Heater is only as good as the system that controls it. Matched panels supplied by Midland Combustion are correctly designed to ensure accurate temperature control.

Panels can be either contactor control or synchronized thyristor control depending on the accuracy of the final temperature required.

Panels to meet almost any application can be provided either as a loose item or supplied and fitted with interconnecting wiring to form a complete package.

All equipment designed and supplied in accordance with IEC, NEC, CENELEC and international standards.

All Panels are works tested before leaving the factory.

Midland Combustion Limited

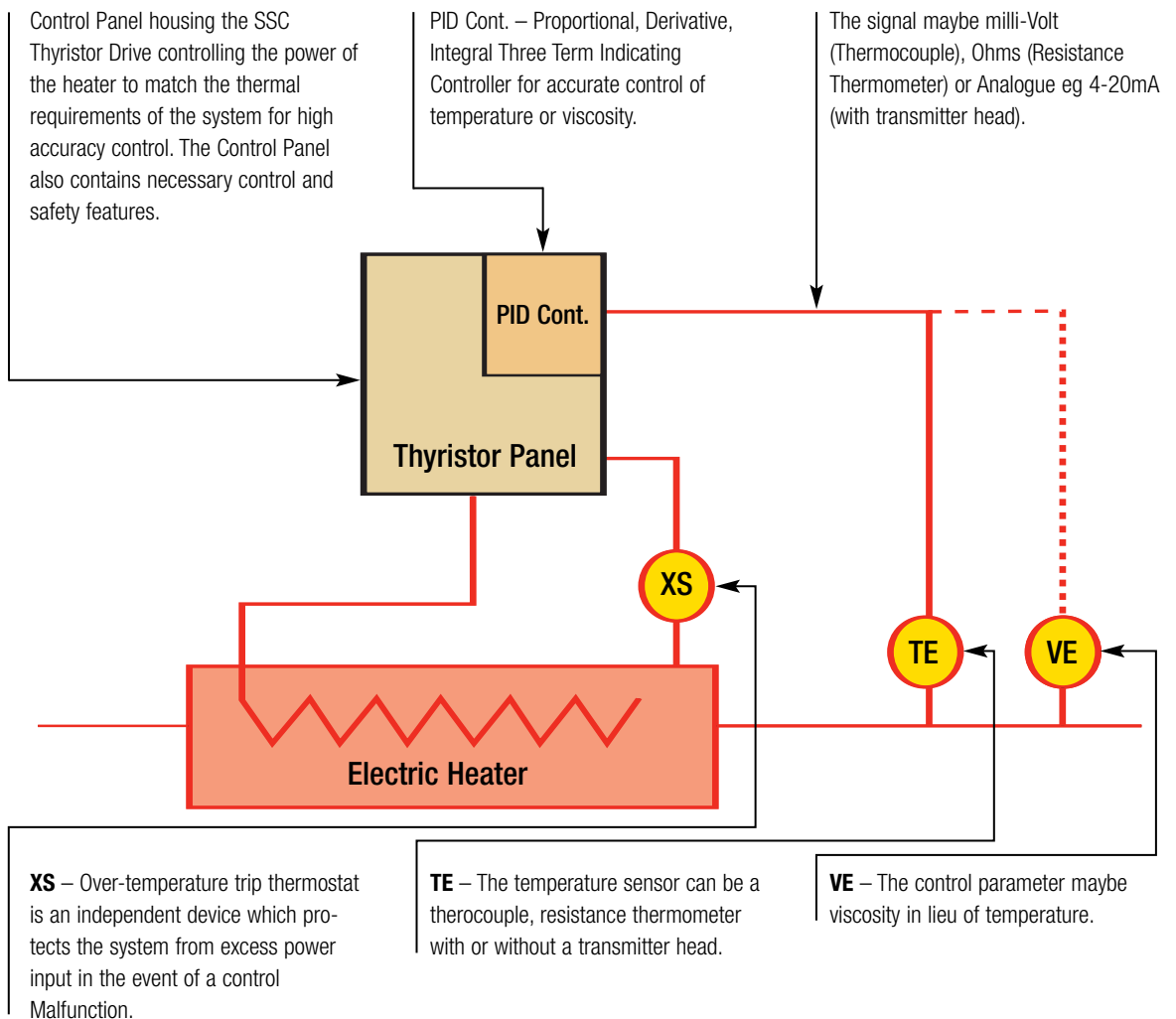
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Control of Electric Heaters using Synchronized Thyristor Control



Midland Combustion Limited have been designing and manufacturing Thyristor packages to supplement their range of Electric Line Heaters for over twenty years.

Thyristor control provides accuracy and avoids the maintenance problems conventional contactors. Conventional temperature elements (thermocouple or RTD) provide an input to a three term controller within a **Midland Combustion Limited** through a DCS System which fires the Solid State Thyristor.

Burst firing a discrete number of whole waveforms with switching at zero volts is **Midland Combustion Limited** established practice to avoid frequency interference and to ensure compliance with the EMC Directive.

Two phase control, the third phase carrying the return current, provides a more economical package than triple thyristors and this is a point of **Midland Combustion Limited** design.

Care must be taken to dissipate the heat generated within the semi-conductors and advice is available to ensure correct housing and installation.

Midland Combustion Limited offer a retrofit service, to supply a Thyristor Control System to existing heaters which are originally intended for contactor control.