

Hydor Controllers



hydor

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Bespoke Panels

Hydor offer be-spoke control panels to meet Customer's exact specific requirements and have supplied control panels to Universities, Hospitals, Marine Services, Atomic Energy De-Commissioning Agents, Utility Services, General Industry as well as the Horticultural and Agricultural Industries.

Hydor can supply panels to control all aspects of ventilation and associated products, speed controlling or stage controlling fans whilst opening and closing vents to maintaining a set temperature or pressure. Linked to this, heating and/or cooling can be incorporated, along with recorded maximum and minimum temperatures.

With the facilities to design and build specialist units, refurbish existing panels in-house or perform on-site modifications where required, Hydor have the flexibility to offer the correct solution every time.



Standard Range Controllers

VMRD Controllers



A manual electronic infinitely variable speed control unit complete with rated miniature circuit breaker to suit the fan current ratings. Ideally suited to the robust environment found in industry, the unit is built into a die-cast metal enclosure.

Available to control one or two fans, rated to a maximum of 10Amps. Suitable for 200-240/1/50 Supply.

Larger units to control three to six fans, built into a steel enclosure, are available to special order.

MSC Regulators

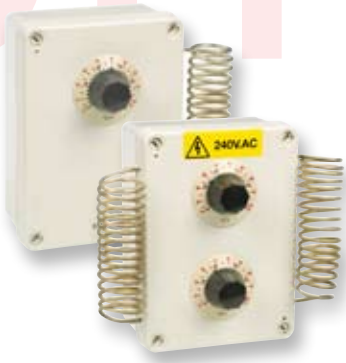


Neat and compact the Hydor MSC Infinitely Variable Electronic Fan Speed Controller fit conveniently into a standard shaver socket enclosure, so can be wall or flush mounted.

The unit is rated to 3Amps and is designed to control the smaller fans in the range. It has a speed selector knob and an illuminated on/off switch mounted in a brushed aluminium fascia plate giving a pleasing finish. An internal fuse is provided, with a spare, and the unit will control either by two or three wire methods.

Suitable for 200-240/1/50 Supply. Rated at IP44 and ambient temperatures to 40°C.

HS Thermostats



Hydor's range of mechanical thermostats are available as single, double or for stage units. These robust, accurate units are ideal for the simple or smaller installation offering accurate switching, with a fixed differential of 1°C, in both heating and ventilation mode, with a range of 0-50°C.

The units are built into a plastic enclosure rated at IP54, with contacts rated at 5 Amps. Suitable for 200-240/1/50 Supply.

Transformer Speed Controllers



The TC range of five speed controllers for voltage controllable single phase and three phase fans, with a manual rotary selector switch. The single phase units are supplied with On/Off switch and an internal miniature circuit breaker for overload protection.

The units are simple to install, robust and do not generate any EMC interference, due to the true sinusoidal waveform output, whilst directly reducing power consumption as speed settings are reduced. Transformers are very efficient, in the order of 97%, so very little power is wasted within the units. Care must be taken when selecting the transformer unit to allow for the initial increased currents taken by some motors when reducing their speed.

Single phase units which are suitable for both 2 or 3 wire control are built into ventilated plastic enclosures whilst the three phase units use metal enclosures.

LMRG Light Dimmers



The Hydor range of Dimmers come in various forms, the most common being the manual electronic infinitely variable version, as shown.

The panel incorporates individual lane switches feeding fused outputs and an over-ride switch to switch the lights to full brilliance. Some units can be operated by an external 0-10volt control signal source and a switch is provided to select either internal or external control.

A manual dimming selector is provided, and the panel is built into a metal enclosure. Dimmers are available for single or three phase and neutral supplies and are rated at 12Amps per phase. Suitable for 200-240/1/50 supply or 380-415/3/50 with neutral supply.

Automatic Fan Changeover Panels



A range of automatic change-over controllers to IP51, for use with single or three phase twin fan units are available to switch over from the duty fan to standby fan, should a failure occur.

Two position Fan 1 / Fan 2 switches for fan selection are featured. Indicators for power and fan failure are provided. These can be activated by electrical overloads tripping, fuse rupturing or air-flow failure switches, dependant on type and are suitable for fans rated up to 6Amps for single phase units, whilst three phase units are governed by contactor / overload ratings up to 22Kilowatt. Suitable for 200-240/1/50 or 380-240/3/50 Supply voltages.

Ceiling Fan Controllers



An electronic infinitely variable speed control HCFC1.7 specifically designed to operate a maximum of five Hydor Ceiling Fans.

The unit is built into a plastic enclosure with the manual speed selector and a reversing switch. The unit is designed for surface mounting in any convenient position. These units are also available with out reversing and control up to a maximum of nine Hydor Ceiling Fans.

HE Fan 2 Speed Controllers



The Hydor HE Fans are some of the most efficient and versatile fans available on the market.

When connected to our two speed control switch greater precision, flexibility and control is achieved. Running the fan on the low speed setting offers a reduction in energy consumption of 40% whilst ventilation is reduced by just 27%.

Remote Emergency Stop Box



A compact plastic enclosure, with a Red mushroom headed push button, which can be located at any convenient position to allow an operator to stop a function in the case of an emergency.

Operates in conjunction with the main control panel or starter.

Remote Fan Run / Fail Indicator Box



An Indicator Unit which can be positioned in a convenient place to enable an operator to visually see the existing mode of operation. The unit has a green run indicator and a red fail indicator.

The unit operates in conjunction with the main control panel or starter.

Starters



Hydor are able to offer a range of single phase or three phase coil-operated direct on-line starters to IP55, competitively priced built -in to plastic enclosures.

Star-delta and Soft-start units are also available, built to order, in metal enclosures.

MTAS Panels



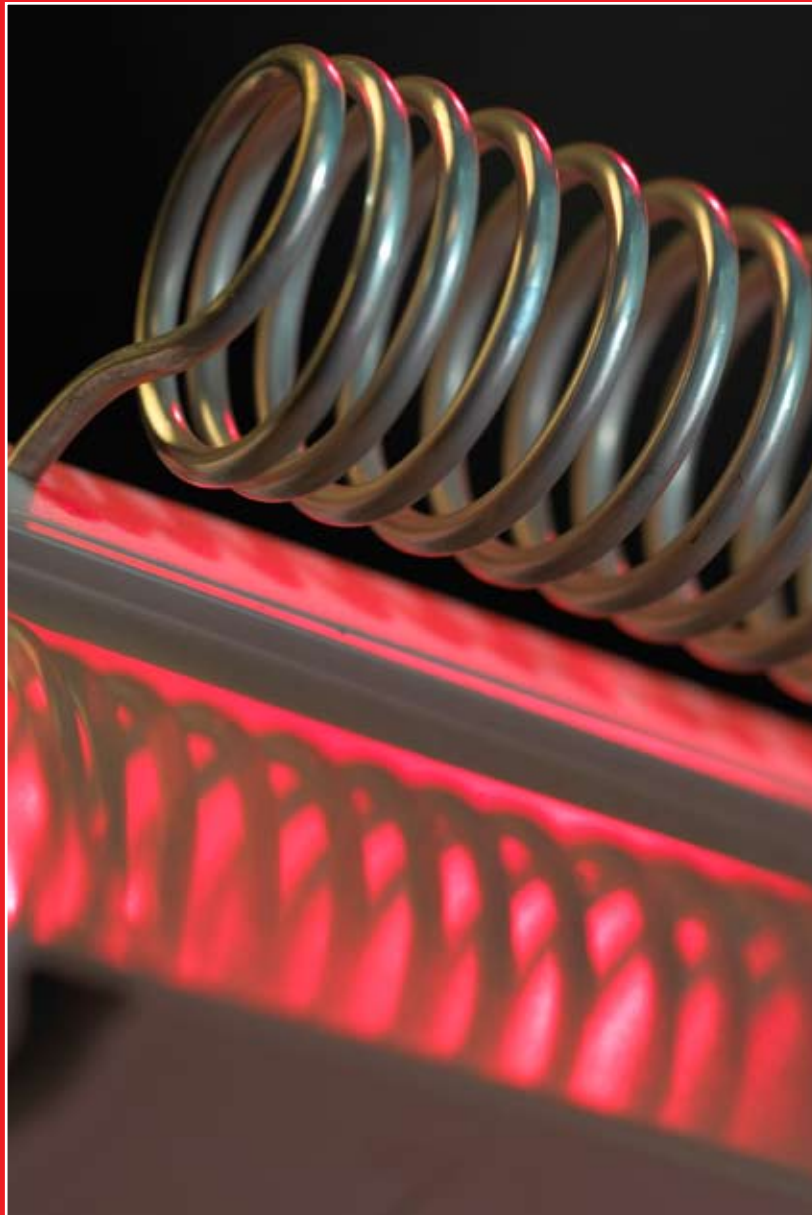
Mains and Temperature Alarm panels to monitor and raise alert to both high and low temperature levels.

Sequential Pump Control Unit



The Hydor-Logicon Sequential Pump Control Unit is designed to give accurate control of three level settings and a low level alarm in sump pits and sewage tanks, although can be used in any application where normal non-toxic fluids need to be moved. The control, which is built into a metal enclosure, has built-in relays which act in sequence to control contactors in a separate control panel controlling pumps of any size can be ordered.

The units operate in conjunction with a weighted bell and a small bore plastic pipe which connects the units together. As changes in fluid levels alter, the air pressure in the pipe varies which is monitored by the HP01 Unit, which adjusts the pumping capacity to meet the demand by switching pumps on or off.



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