Main Control Panel

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PVE control Panels are manufactured and factory tested to the highest UK and European standards and specifications. All components used within the assemble are proven, branded and easily obtainable as replacements from local distributors, nationwide or direct from our stores.

Enclosure: in single,double or multi-staged arrangements dependent on system size and will be constructed from 1.75 mm , powder coated steel. All doors are 2mm powder coated steel.
Mounting plate - 3mm galvanised steel and bottom plate in 1.5mm galvanised steel.
All frames are seam welded reversed open profile with hole patterns according to DIN 43660 including integrated external hole pattern.
Doors: Surface mounted with 4 hinges including door frame with 25mm hole pattern.
Rear Panel: fitted by M6 torx screws with the standard facility for rear door mounting.
Roof Panel : Removable.
Lock: 4 point locking system designed not to interfere with inner space.
Mounting plate: double folded and adjustable in depth in 25 mm increments.
Earthing: all PVE panels are earthed through their fittings.
Finish : standard finish in RAL 7032 polyester powder coating.
Protection: corresponds with IP 55 and Nema 12,13.

PVE panels incorporate Socomec isolation (door interlocking) Erico distribution bus bars.

Due to their proven reliability, worldwide reputation and availability PVE use Siemens 3RV1 motor protection circuit breakers these being compact , current limiting and are optimised for load feeders. The circuit breakers are used for protecting 3 phase induction motors of up to 45kW at AC 400 V and for loads with rated currents of up to 100 A. Also used to ensure a matching of components are Siemens 3RVA13 contactor assembles.

The PVE control panel incorporates Hot- Standby - 415/110VAC transformers and a 72 hour 24VDC EMS battery Back-up system.

The Panels PLC will be fitted with Siemens S7300 processors (Simatic C7) and Siemens I/O blocks.

All PVE panels will incorporate a Siemens 5.7 STN touch screen facility (RS485 Profibus)

Each panel will also be fitted with Phase failure/ phase rotation protection devices and type BC & D control circuit breakers.

Within the construction/cabling process PVE only use control and power cables that are tri-rated.

Standard Extras

Damper Control

For control and switching of system dampers, our panel incorporates a 24VAC transformer as standard.

Failsafe Alarms

Also within a PVE control panel and at no extra cost are inbuilt failsafe alarms to inform others of a common fault within the smoke ventilation system. I.e. Power failure, motor overload, or transformer failure.

System Maintenance

Regarding overall system maintenance all PVE panels incorporate as standard and at no extra cost their unique R.A.M.P system (Remote Automated Monitoring Program) this facility enables the system user to remotely monitor the performance of individual components ensuring that if failure occurs for whatever reason the operator is immediately notified of the fault its definition and whereabouts. This facility is unique to PVE and is operable via a wireless modem connection to our panel.

Documentation

All required documentation relating to the panel included as are all CAD drawings.Functional Test sheet, pre delivery and flash tests are included.A full parts list is provided at no extra charge.

On site testing and commissioning will be carried out at our standard daily rate.

For More Information, please contact: PVE Ltd.
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