

# Pump Control Panels



INTERNAL COMPONENTS OF A TYPICAL CONTROL PANEL

The DAYLIFF range of pump control panels have been specially designed to provide effective protection and reliable control of all electric pumps. Standard panels are available for one and two pump installation in all sizes up to 100kW for both manual and automatic installations. In addition various optional accessories are offered so panels can be customised to suit site requirements. Panels for multi pump, large motors and specialised control applications can also be supplied, these being individually designed to suit the particular installation.

All panels utilise quality components and are supplied completely pre-wired with terminals for control accessories (where applicable) as well as incoming and outgoing power connections. Comprehensive wiring diagrams are provided with all panels.

Enclosures are manufactured of mild steel and finished with a hard baked non-chip dry powder epoxy finish. Panels with DOL and Star Delta starters are provided with hinged lockable door fronts and are of IP65 weather protection specification. Other panels are of IP44 specification and must be weather protected.

All panels are manufactured to exacting standards and are quality products which complement the wide range of DAYLIFF pumps available from to provide cost effective, reliable and efficient water installations.

## STANDARD PANELS

**Type 1PM (one pump) and 2PM (two pumps):** Manual panel for small single phase pumps. Specification includes Incoming Isolator, MCB, 'On' Indicator and (motor sizes > 1.1kW) Relay and Auto/Hand selector. Two pump panels have paired component sets with a 102 Changeover switch.

**Type 1PD (one pump) and 2PD (two pumps):** Standard panel for Direct-on-Line start. Specification includes Incoming Isolator and MCB, individual pump MCB's, Direct-on-Line Starter including contactor and overload, 'On' and 'Trip' Indicators and Auto/Hand selector. Two pump panels have paired component sets and a 102 Changeover when auto/standby configuration is specified and individual Auto/Hand selectors when independent pump operation is specified.

**Type 1PY (one pump) and 2PY (two pumps):** Standard panel for Star Delta start. Specification is as for type 1&2PD with the alternative fitting of a Star Delta Starter(s) with three contactors, overload and timer.

Also all panels are available in two quality specifications, Standard, which includes non-branded components and Premium, which includes internationally branded components from Lovato, Schneider, Siemens or ABB according to availability.

## STANDARD OPTIONS

**Analogue Voltmeter (MV):** Three phase applications include a phase selection switch.

**Analogue Ammeter (MA):** Three phase applications include a phase selector switch.

**Analogue Frequency Meter (FF):**

**Analogue Hourmeter (MH):**

**Digital Multi-Function Monitor (MD):** Include selectable amps, volts and  $\cos\phi$ .

**Low Level Control Relay (CL):** For control of high and low water levels.

**Timer (CT):** Timer for application with auto control, especially pressure switches.

**Timer Switch (CS):** 24hrs time switch to set desired time for pump operation.

**Level Alarm (CA):** Activates an alarm to indicate high or low water levels.

**Multifunction Relay (CP):** Protects against over/under voltage, phase sequence, phase asymmetry and phase failure. Available in Standard and Premium specifications.

**Auto Trip Changeover (CCT):** Changes operation to standby pump if duty pump trips.

**Auto Cycle Changeover (CCA):** Changes duty pump each operating cycle as well as when the duty pump trips.

All panels can also be fitted with the innovative iDAYLIFF Remote Monitoring and Control System.

## Panel Sizes

	TYPE	PREFIX	RATING	MOTOR
SINGLE PHASE	M	1	01	0.37 to 0.75kW
	M or D	1	02	1.1 to 1.5kW
	D	1	03	2.2kW
THREE PHASE	D	3	04	1.1 to 4kW
	D	3	07	5.5 to 7.5kW
	D or Y	3	15	11 to 15kW
	D or Y	3	22	18.5 to 22kW
	D or Y	3	30	30kW
	Y	3	45	37 to 45kW
	Y	3	55	55kW
	Y	3	75	75kW