



Diesel Engine Driven Pump Panel

Standard Features:

- **Panel Mounting** - Floor/wall mounting as per size
- **Panel material** - MS CRCA sheet steel
- **Painting** - Epoxy powder coated paint
- **Colour Shade** - Fire red
- **Drive Isolation** - Individual isolator MCB
- **Protection Class** - IP42/IP52/IP54/IP55/IP64/IP65
- **Indications** - Phase /Trip/ON/OFF/Low
oil/High Temperature
- **Charging** - Battery Charger 12V/24V
- **Rotary Switch** - Auto manual selector switch
- **Push Buttons** - Engine start/Engine Stop
- **Alarm** - Visual/Audio alarm



Sequence of Operations:

Diesel engine driven pump are the standby pumps for the FF pumps. When Main pumps (Main Hydrant /Main Sprinkler) are working in system & due to some electrical/mechanical faults main pumps fails then system pressure drops rapidly. When the pressure drops beyond set pressure Diesel engine driven pumps is starts automatically.

Decrease in pressure is sensed by pressure switch which is transferred to the control panel. Diesel Engine Control Panel for Fire Pump incorporating contactors, relays, timers for applying automatic starting pulses to the diesel engine on receipt of command signals from pressure switch with starting sequence consisting of three electrical pulses of 5secs/3secs duration each spaced at five sec apart.

Diesel engine panels are incorporated with auto engine starter & battery charger. Since, battery is continues charged hence the are fire ready for emergency. Diesel engine panel is protected by DP MCB for any short circuits.



Control panel specification:

- **Input Supply** - 240 Vac; 50 Hz; Single Phase Supply
- **Dc System** - 24 Vdc/12Vdc
- **Starting** - Automatic When Hydrant Pressure Drops & Manual By Push Button.
- **Start Sequence** - Three Trials Of 5 Sec. Satisfying At 15Sec.Intervals
- **Battery Charging** - Trickle / Boost Charging For Engine Battery.
- **Indications** - Visual – Lamps, Audio – Hooter(Dc)