

PRE PROGRAMMED SIEMENS LOGO PLC as **UNIVERSAL DUTY / FAULT C/O CONTROLLER** for PUMPS, FANS & A/C UNITS



24v or 240v Versions
8 DIGITAL INPUTS
4 RELAY OUTPUTS

- PRE-PROGRAMMED WITH STANDARD SETTINGS FOR DUTY/FAULT C/O
- AUXILIARY INPUT TO FORCE START STANDBY UNIT
- RESETTABLE TOTAL Hours RUN COUNTERS & HOUR C/O TIMERS
- FAULT INPUTS CAN BE SET AS N/O or N/C
- FAULT INPUTS CAN SET AS AUTO RESET OR LATCHED
- DIN RAIL MOUNT, SUITS M.C.B ENCLOSURES
- PLAIN ENGLISH SCROLLING LCD DISPLAY SHOWING INPUT & OUTPUT STATUS
- AVAILABLE IN 24V OR 240V AC VERSIONS , OUTPUT RELAYS ARE POTENTIAL FREE IN EITHER VERSION.

Use

This pre-programmed Siemens Logo PLC has been primarily programmed for use as a PUMP, FAN or A/C UNIT Automatic Duty / Fault change over control module. With no active faults the module will automatically swap the programmed output relays Q1 & Q2 after 48 hours of respective run time. I/O status, C/O timer "remaining run hours" & "total run time" are displayed on the LCD screen. Fault inputs can be set as N/O or N/C and also as either auto reset or latched inputs. If auto reset faults is selected, when a fault condition occurs in relation to the running output, 15 seconds later the standby output will also energise, when the fault clears the outputs will return to the previous run state. If latched faults are selected, on fault the duty output is inhibited and locked out and the standby output energises, to reset this fault condition power will need to be recycled to this module. Fault conditions are only recognised when an output is called to be running. An auxiliary input (i3) is also available to force into operation the standby unit - typical use is to force on the standby A/C unit due to high temperature (via a connected on/off thermostat) in a computer rooms where the primary A/C unit isn't coping with the load. The Q3 relay activates as a common run indication output when either Q1 or Q2 relays are energised & Q4 relay activates as a common fault output. The fault output Q4 can be forced off (mute function) by pressing buttons on the modules fascia (ESC & V buttons together).

OPERATIONAL NOTES

- 1.) OUTPUTS AUTOMATICALLY C/D AFTER 48 HOURS OF RUN TIME.
- 2.) STANDBY OUTPUT ENERGISES AUTOMATICALLY 15 SECONDS AFTER FAULT INPUT ON DUTY UNIT.
- 3.) ACTIVE ON '14' ENABLES OPERATION
- 4.) ACTIVE ON '15' SETS FAULT INPUTS AS NORMALLY CLOSED INSTEAD OF NORMALLY OPEN. FAULTS ARE ONLY RECOGNISED IF OUTPUT IS BEING CALLED TO OPERATE.
- 5.) ACTIVE ON '16' SETS FAULT INPUTS TO LATCH ON FAULT. IF '16' OPEN FAULTS AUTO RESET. LATCHED FAULTS CAUSE THE RESPECTIVE D/P TO TURN OFF, AUTO RESET LEAVES D/P ENABLED TO ALLOW AUTO RESET ON FAULT CLEAR. TO CLEAR LATCHED FAULTS POWER NEEDS TO BE MOMENTARILY DISCONNECTED FROM THIS PLC.
- 6.) OUTPUT RELAYS ARE INDEPENDANT & VOLTAGE FREE RATED AT 10A res.
- 7.) PRESSING BOTH THE 'ESC' & THE 'DOWN' ARROW BUTTONS TOGETHER DISABLES THE FAULT INDICATION OUTPUT Q4 & IS INTENDED AS A SIREN MUTE ABILITY
- 8.) D/P 1 HRS RUN COUNTER & C/D TIMER CAN BE REST EITHER BY A MOMENTARY ACTIVE I/P INTO '17' OR BY PRESSING THE 'ESC' BUTTON & THE LEFT ARROW BUTTON TOGETHER D/P 2 HRS RUN COUNTER & C/D TIMER CAN BE REST EITHER BY A MOMENTARY ACTIVE I/P INTO '18' OR BY PRESSING THE 'ESC' BUTTON & THE RIGHT ARROW BUTTON TOGETHER
- 9.) ACTIVE CONNECTION INTO I/P '13' FORCES ON BOTH Q1 & Q2 OUTPUTS
- 10.) PRESSING THE 'ESC' & THE 'UP' ARROW BUTTONS TOGETHER WILL CAUSE BACK LIGHT TO ILLUMINATE FOR 10 MINUTES.

