

WATER SUPPLIES DEPARTMENT
STANDARD SPECIFICATION E-71-08
CHLORINATION MONITORING AND CONTROL PANEL

1. **DESIGN**

The chlorination monitoring and control panel shall be equipped with the following :-

- (i) 24V d.c. alarm annunciators for :-
 - Power supply failed
 - Evacuation alarm
 - Chlorination plant room door opened
 - Chlorine leak low/high
 - Chlorine leak detector fault
 - Chlorine leak detector protection out
 - Chlorine store ventilation fan fault
 - Chlorine cylinder/drum empty
 - Chlorine cylinder/drum system changed over
 - Changeover valves closed (each valve)
 - Changeover valves emergency shut-off protection out
 - Chlorine header pressure low
 - Chlorine drum outlet disc rupture(each disc, if installed)
 - Evaporator water level high/low (each evaporator, if installed)
 - Evaporator temperature high/low (each evaporator, if installed)
 - Evaporator liquid inlet disc rupture (each evaporator, if installed)
 - Evaporator gas outlet disc rupture (each evaporator, if installed)
 - Vacuum regulating valve temperature low
 - Chlorinator vacuum failed (each chlorinator)
 - Chlorinator water supply failed
 - Chlorinator booster pump failed (each pump, if installed)

- (ii) Open/close illuminated push buttons for :-
 - Booster pump
 - Ventilation fan

- (iii) Indication lamps for change-over valves open/closed.

- (iv) Key operated selector switches for :-
 - Changeover valve emergency shut-off protection in /out selection
 - Ventilation fan control mode auto/manual selection
 - Chlorine leak test on/off selection
 - Chlorine leak detector protection in/out selection (each detector)
 - 24V d.c. power supply PSU/normal/battery selection
 - 220V AC power supply on/off selection

- (v) Push buttons for alarm mute, lamp test and reset.

- (vi) Wind speed and direction indicator.
- (vii) Latch type push buttons for chlorine leak and evacuation initiation.
- (viii) Internal telephone.
- (ix) Volt-free contacts for signals transmission to other control panels and equipment.
- (x) Panel heater, relays, timers and associated wiring.

2. CONSTRUCTION

The cubicle shall have a degree of protection of IP 54 and comply with clause 3.2 of WSD Standard Specification E-11-03.

- End of this Specification -