



The VCP-610 Pump Station Controller

1. General.

Cigol Control's latest in a long list of pump station controllers is the VCP-610. This provides all the control functions for a high vacuum pumping system based on diffusion, cryogenic or turbo-molecular pumping. It is ideally suited for use in the semiconductor, optical coating, electron beam, vacuum furnace and related industries.

2. Front Panel.

The VCP-610 is supplied as a 2U high rack mounting unit. It has the following front panel features.

- 2.1 Full mimic diagram showing state of valves and vacuum thresholds.
- 2.2 40 character 2 line alphanumeric display indicating vacuum levels, status and fault conditions.
- 2.3 Manual / Automatic key switch.
- 2.4 Control buttons (eg. Shutdown, Standby, Pump, Vent, Regeneration)

3. Rear Panel.

All external connections are brought out on connectors mounted on the rear panel as follows.

- 3.1 32 active 0 +24Vdc compatible digital inputs.
- 3.2 24 relay contact based digital outputs (maximum operating voltage is 60V (ac / dc)).
- 3.3 15 way D connector socket for RS232 output vacuum gauges (includes gauge power supply output). Supported gauges include Leybold IR090 and Inficon BPG400.
- 3.4 Five individual 8 pin FCC-68 connector sockets for analogue vacuum gauges (includes gauge power supply output). Each of the five gauge inputs can be configured to match a different active gauge. Supported gauges include Leybold TR090, TTR211s and ITR-100, Inficon PSG400 and Edwards apgx-m and aim-x.
- 3.5 Auxiliary RS232 port used for external monitoring PC interface and / or configuration.