



P3030 PROGRAMMABLE LOGIC CONTROL MODULE

INTRODUCTION

Cussons P3030 Programmable Logic Control Module (PLC) accessory is designed to be connected to a range of experiments for simulating an automatic process. The unit has as standard 8 logic inputs and 6 relay outputs which, when connected to the experiments, can be used to start and stop pumps, select remote setpoint inputs and create disturbances to a process by opening or closing solenoid valves.

DESCRIPTION

The unit comprises a 3U high 19" rack with an industry standard PLC fitted internally. All the connections being brought out to suitable connectors on the rear panel. The front panel contains the programming keyboard which also houses an LCD display so that the unit can be programmed via the normal ladder diagrams. The display also gives the user a visible check of what is happening as each contact can be viewed and its state observed as the program runs.

Complex timed sequences and programs can be written and the PLC has the facilities of 64 timers and 64 counters internally so that a program may be written to introduce a disturbance to a process after a time and then observe the process condition and then reset the disturbance after another period of time.

The front panel also comprises power on/off switches and other switches linked into the PLC which can be used as digital inputs to initiate various stages of a program if required.

COMPATIBILITY

The module is compatible with the following process control equipment supplied by Cussons:

- ◆ P3010 Flow Control Apparatus
- ◆ P3015 Level Control Apparatus
- ◆ P3020 Acidity (pH) Control Apparatus
- ◆ P3035 Temperature Control Apparatus

TENDER SPECIFICATION

Apparatus comprises:

19" 3U high control rack housing an industry standard Programmable Logic Control with 8 logic inputs, 6 relay outputs, 64 timers and 64 counters. Connectors for power input and PLC input and output connectors to interface to process control equipment are mounted on the rear panel. Power on/off, digital inputs and the PLC programming terminal mounted on the front panel.

SERVICES REQUIRED

Single phase, 220/240V, 50/60 Hz

PHYSICAL DETAILS

500 mm wide x 150 mm high x 360 mm deep