cussons
TECHNOLOGY

P3040
ADDITIONAL CONTROL MODULE

INTRODUCTION

Cussons P3040 Additional Control Module is designed as an add on module to a range of Cussons Control Apparatus to provide demonstration of more advanced experiments. The unit enables particular systems to be extended to provide more complex experiments in process control such as dual ratio control, cascade control and feed forward control.

DESCRIPTION

The unit comprises a 3U high 19" rack module containing an advanced microprocessor programmable 3 term controller, interface printed circuit boards and power supply which provide signal conditioning for the necessary additional transducers associated with the process equipment. The controller, which includes an RS232 communications link and retransmission of the measured variable and control output, provides automatic control of the process variable and allows manual control from its keypad. The proportional band, integral and derivative times may also be changed from the controller keypad. The rear panel contains all the necessary connectors to interface the module with the process experiment, chart recorder, Cussons P3030 Programmable Logic Control Module and an IBM PC/XT via Cussons P3025 Computer Control Software and Data Logging Interface.

COMPATIBILITY

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

- P3010 Flow Control Apparatus with P3011 Level Control Module
- P3015 Level Control Apparatus with P3017 Flow Control Module
- P3020 Acidity (pH) Control Apparatus with P3021 Ratio Control Module

TENDER SPECIFICATION

Additional Control Module comprises:

1. A control unit comprising a steel instrumentation enclosure housing an advanced programmable 3 term digital microprocessor controller suitable for controlling Cussons process control equipment.
2. The microprocessor based instrument has the facility for providing closed loop automatic control or manual control. During automatic control the system is controlled to the set point which can be changed using the increase/decrease buttons. The proportional band, integral time and derivative time can also be altered in the same manner. In manual operation the system can be controlled using increase/decrease buttons to vary the output of the controller.
3. The microprocessor controller should incorporate an RS232 serial data link which allows external control via a suitable computer (IBM or equivalent). Analogue outputs are provided of measured variable and controller output both
0-10V which can be recorded on a chart recorder.
4. Inside the case are the signal conditioning boards which convert a variety of signals into a suitable input for the controller, thus making it suitable to be added to any of the control experiments already available.

SERVICES

Single Phase 220/240V 50Hz

DIMENSIONS

500 mm wide x 150 mm high x 360 mm deep.

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