



## MARINE PROPULSION CONTROL

### PNEUMATIC LOGIC AND CONTROL PANEL

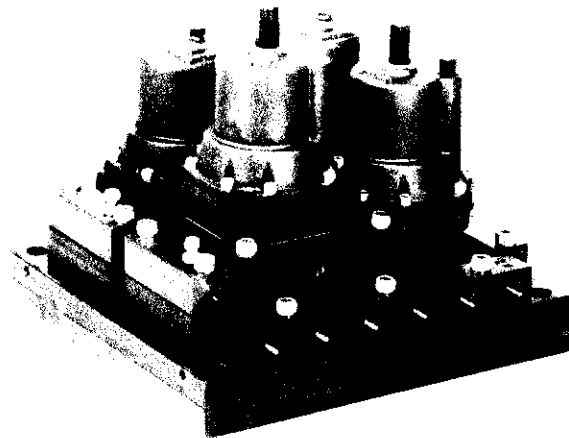
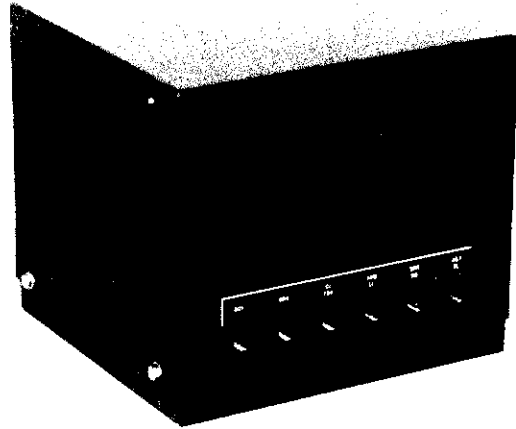
TYPE MPC-1H

#### APPLICATION

Main propulsion or thruster control for vessels with fixed pitch propellers, reverse gears and hydraulic clutches

#### FEATURES

- .Compact Size
- .Easy Installation
- .High Flow
- .Manifold Mounted Components
- .Power Boost
- .Controlled Engine Acceleration
- .Clutch Pressure Interlock
- .Timed Reversing Interlock

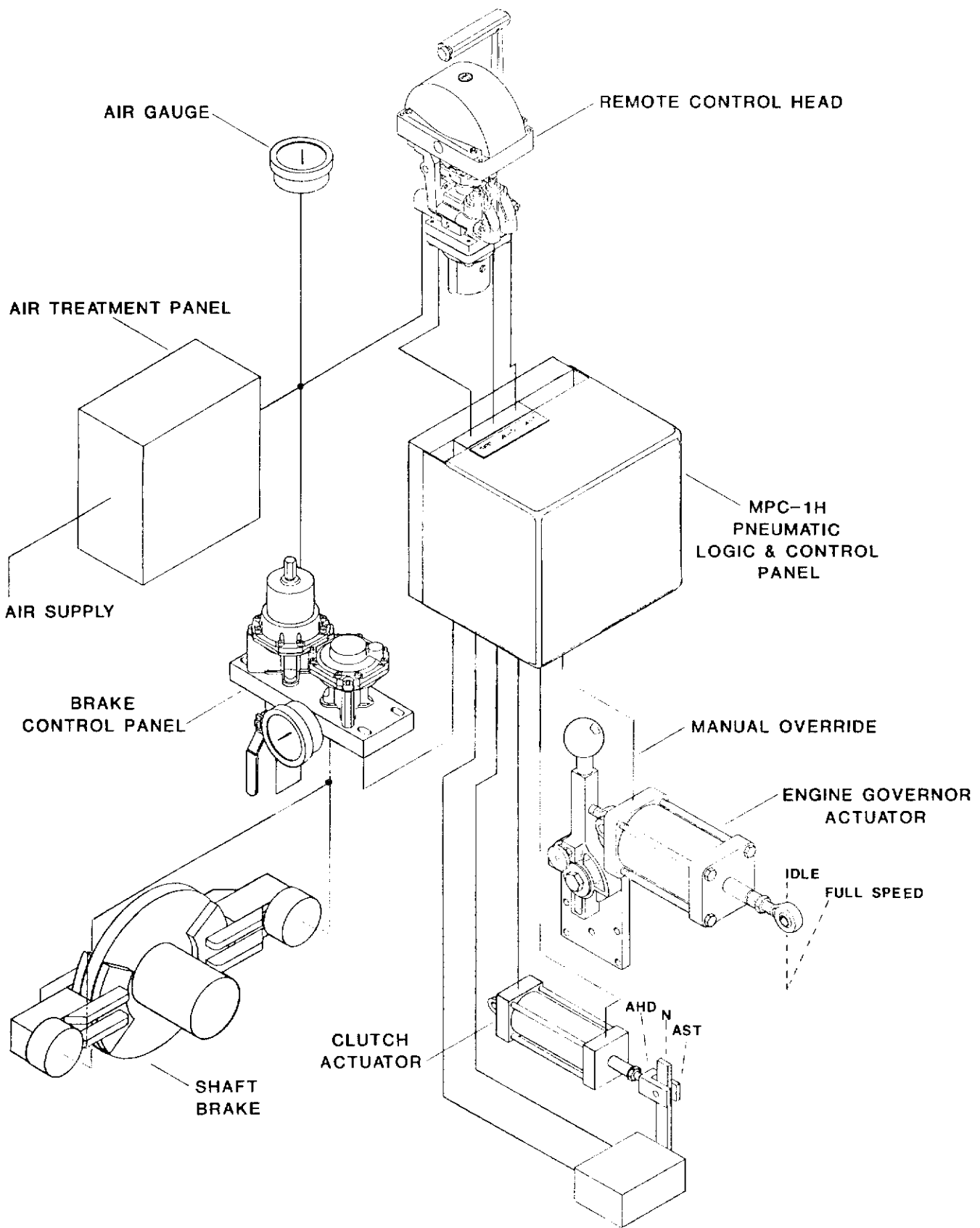


**PRIME MOVER CONTROLS INC.**

VANCOUVER, B.C., CANADA

**DESIGN, MANUFACTURE AND SERVICE OF MARINE AND  
INDUSTRIAL CONTROL COMPONENTS AND SYSTEMS**

Electronic - Pneumatic - Hydraulic



**TYPICAL PROPULSION CONTROL SYSTEM**

## GENERAL DESCRIPTION

The MPC-1H pneumatic panel is a compact modular unit, designed to provide propulsion control for vessels with fixed pitch propellers, reverse gears and hydraulic clutches. MPC panels are also suitable for thruster control. The MPC panel contains all necessary logic, interlocks and timing to ensure that the engine and reverse gear operate properly, smoothly and safely. A pneumatic signal for operating a shaft brake is also provided.

A laminated manifold with air channels eliminates the need for piping between the individual valves. Installation is fast and simple. All valves are base mounted and can be removed for servicing without breaking any pipe connections.

## FEATURES

### Power Boost

Increases engine RPM setting during clutch engagement to prevent engine stalling or reversal.

### Controlled Engine Acceleration

Limits rate of engine RPM increase for efficient acceleration.

### Clutch Pressure Interlock

Assures clutch lock-up before the engine RPM can be increased from any remote control station, preventing excessive wear of clutches. If at any time the clutch pressure drops below a pre-set level the engine RPM is automatically reduced.

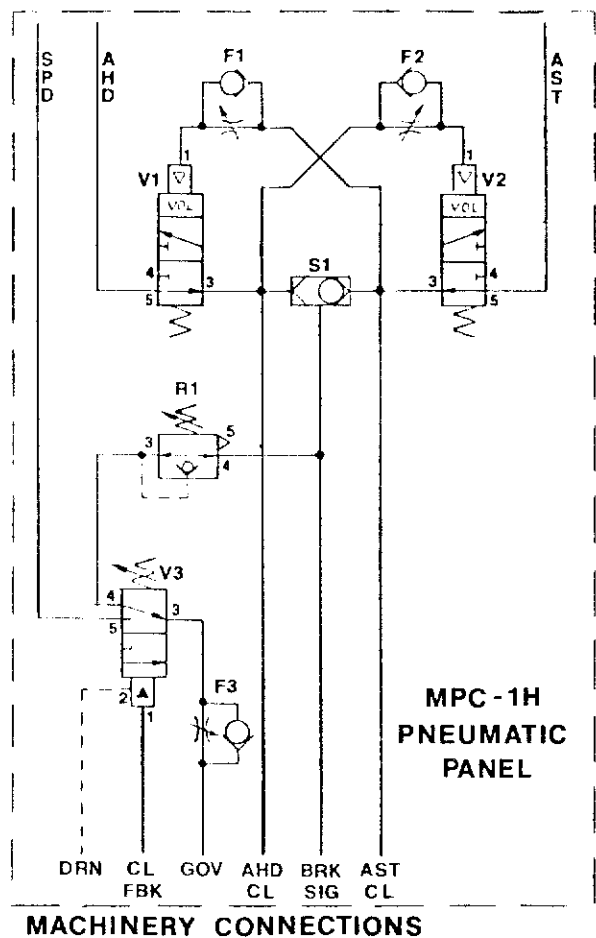
### Timed Reversing Interlock

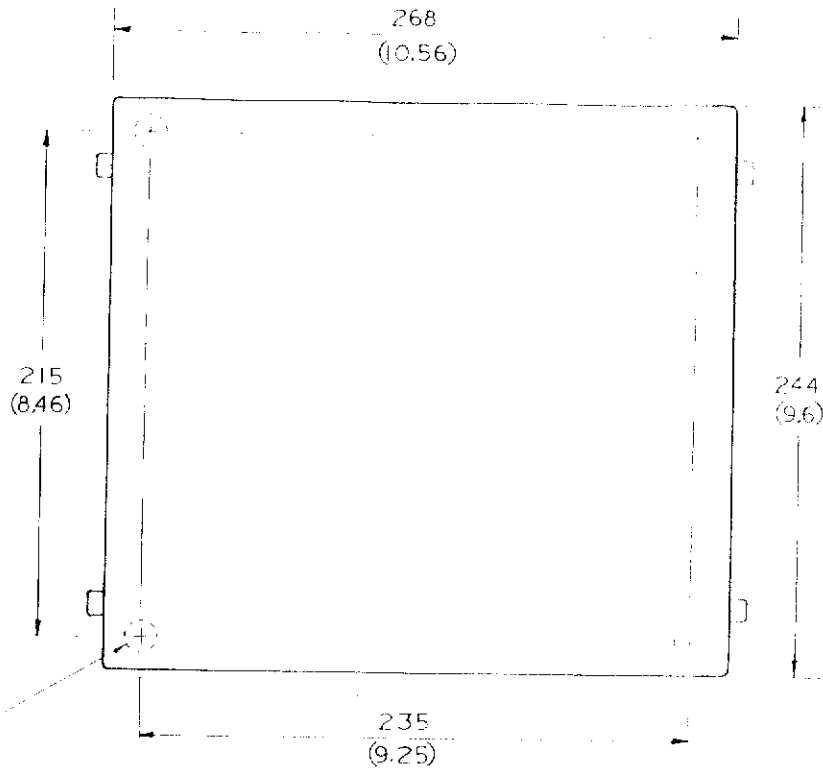
Ensures that clutch returns to neutral position for a pre-set time before opposite clutch is engaged. This allows the engine and propeller speeds to reach acceptable levels before reversal. The shaft brake is activated during this time, if used.

## ADJUSTMENTS

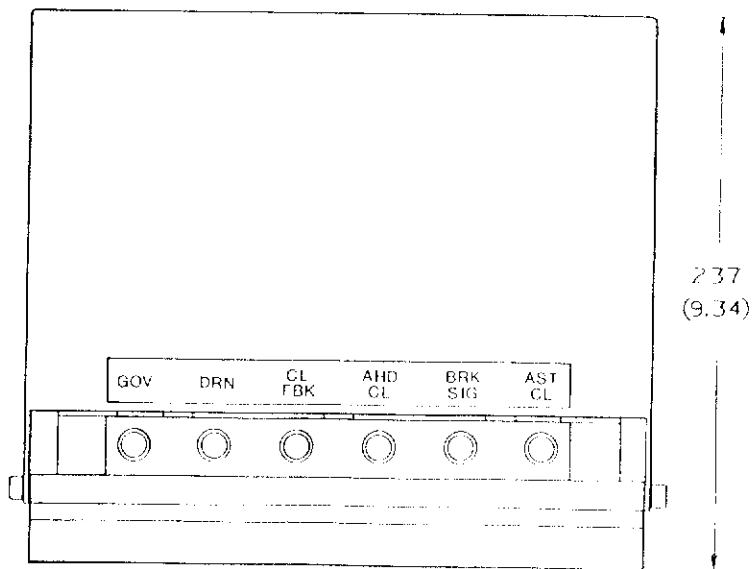
All of the above features are adjustable and are individually set and tested at the factory before shipping. They are also available in factory pre-set tamper proof configurations.

## INPUT CONNECTIONS FROM REMOTE





4 MOUNTING HOLES  
IN BASE OF UNIT  
14 (.55) DIA



DIMENSIONS ARE IN <sup>MM</sup>  
(INCHES)

# PRIME MOVER CONTROLS INC

3600 Gilmore Way, Burnaby, BC, Canada V5G 4R8 Tel: (604) 433-4644 FAX: (604) 433-5570