

PHM-100STV-A SAFETY SHUT OFF TIMER

USER'S MANUAL



DOC-108
Rev 1.1

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INTRODUCTION

The PHM-100STV-A is a microprocessor based, digital timer that is capable of Timing Intervals between 1 and 99 seconds, in 1-second increments. Timing Interval is user selectable, via the front panel two-digit pushbutton switch. The Timing Interval is initiated by sending the PHM-100STV-A a MED output control signal. The output of the Safety Shut-Off Timer is a standard 28V output. At the end of the Timing Interval, the voltage output will deactivate and stay off until the Timer is reset.

Figure 1 – PHM-100STV-A Front Panel

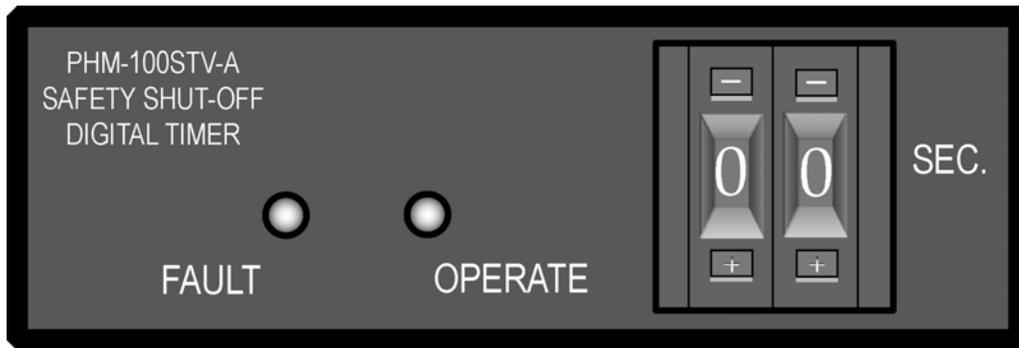
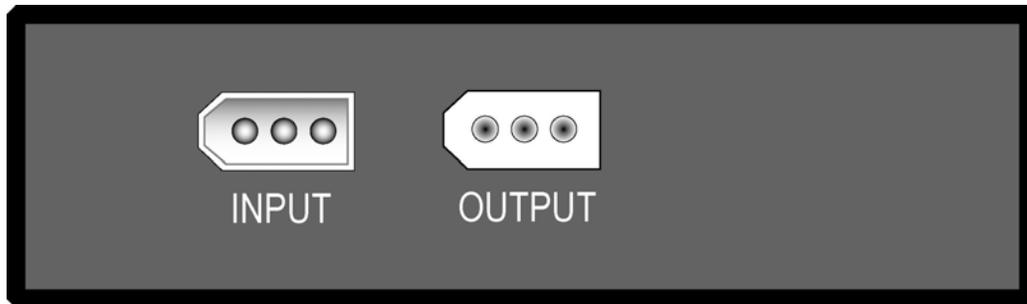


Figure 2 – PHM-100STV-A Back Panel



OPERATING INSTRUCTIONS

The Timing Interval is set using the front panel pushbutton switches. The left-most digit on the pushbutton switches represents time in tens of seconds and the right-most digit represents seconds. For example, for the minimum Timing Interval of 1 second the pushbutton switches should be set to 0-1 (Figure 3) and for the maximum Timing Interval of 99 seconds they should be set to 9-9 (Figure 4).

Figure 3– Timing Interval Set to 1 Second



Figure 4 – Timing Interval Set to 99 Seconds



The green 'OPERATE' LED (Figure 1) indicates that the output is active. If the MED output is still on at the end of the Timing Interval, the PHM-100STV-A Safety Shut-Off Timer will turn it off. The 'FAULT' LED (Figure 1) will light up, indicating that there has been a timeout, and the Timer is now deactivated until it is reset (see DEVICE RESET).

Timer Disable

To disable the PHM-100STV-A, set the Timing Interval to 0-0. With the timer disabled, the output will follow the input from the MED output control signal. When disabled, the 'FAULT' LED will blink, indicating that the safety circuit is inactive.

Device Reset

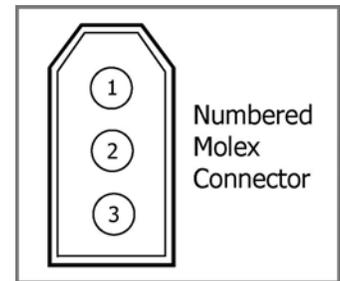
To reset the timer, the 28V power supplied to the PHM-100STV-A Input connector must be shut off or disconnected, then turned back on or reconnected.

CONNECTORS

INPUT Connector

This 3-pin Molex connector should be connected to any available Output on a standard MED Connection Panel. By turning the corresponding output bit "ON" the timer will start and timer output will activate.

Molex Pin #	Function	Wire Color
1	28V Ground	Black
2	Start Timer	White
3	+28 Volts	Red



OUTPUT Connector

The PHM-100STV-A Output is designed to be connected to MED syringe pumps, but any 28-Volt MED device, such as a house light or sonalert, can be connected to the 3-pin Molex connector. The output will be turned off at the end of the Timing Interval.

Molex Pin #	Function	Wire Color
1	28V Ground	Black
2	Operate Output	White
3	+28 Volts	Red

