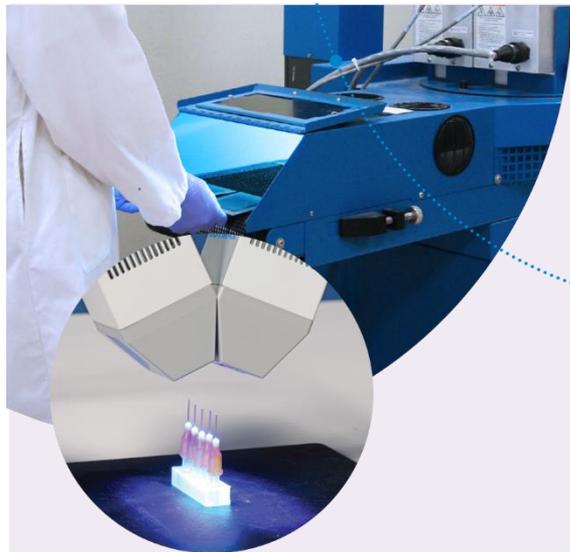




External Timer Control Unit

For use with the BlueWave® 200 Version 3.0
User Guide



About Dymax

Light-curable adhesives. Systems for light curing, fluid dispensing, and fluid packaging.

Dymax manufactures industrial adhesives, light-curable adhesives, epoxy resins, cyanoacrylates, and activator-cured adhesives. We also manufacture a complete line of manual fluid dispensing systems, automatic dispensing systems, and light-curing systems. Light-curing systems include LED light sources, spot, flood, and conveyor systems designed for compatibility and high performance with Dymax adhesives. Dymax adhesives and light-curing systems optimize the speed of automated assembly, allow for in-line inspection, and increase throughput. System designs enable stand-alone configuration or integration into your existing assembly line.

Please note that most dispensing and curing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application, and use is strictly limited to that contained in the Dymax standard Conditions of Sale. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request.

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Introduction

This guide describes how to set up, use, and maintain the BlueWave® 200 Version 3.0's External Timer Control Unit safely and efficiently.

Intended Audience

Dymax prepared this user guide for experienced process engineers, technicians, and manufacturing personnel. If you are new to high-intensity light sources and do not understand the instructions, contact Dymax Application Engineering for answers to your questions before using the equipment.

Where to Get Help

Dymax Customer Support and Application Engineering teams are available by phone in the United States, Monday through Friday, from 8:00 a.m. to 5:30 p.m. Eastern Standard Time. You can also email Dymax at info@dymax.com. Contact information for additional Dymax locations can be found on the back cover of this user guide.

Additional resources are available to ensure a trouble-free experience with our products:

- Detailed product information on www.dymax.com
- Dymax adhesive product data sheets on our website
- Material safety data sheets (SDS) provided with shipments of Dymax adhesives

Main Components

Figure 1.
External Timer Control Unit – Front Panel

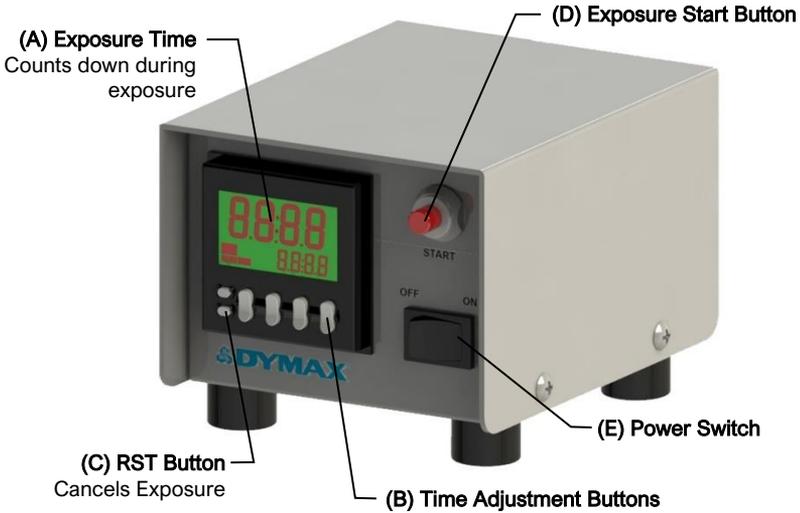
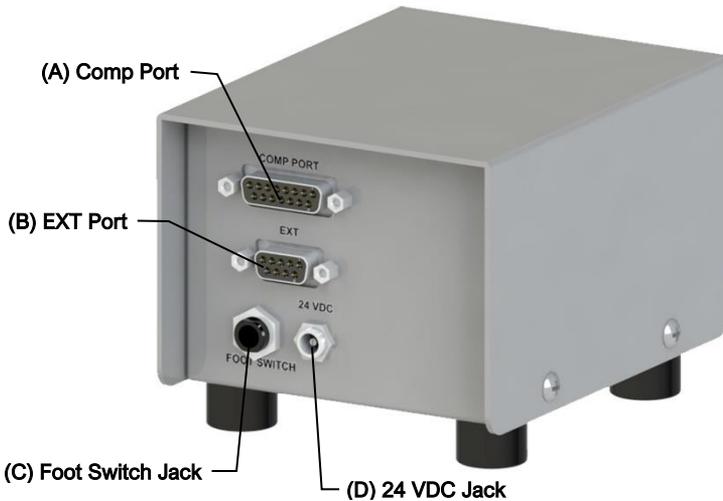


Figure 2.
External Timer Control Unit – Rear Panel



System Setup

Setup & Operating Instructions

1. Set the BlueWave® 200 Version 3.0 to PLC mode by pressing the Set Button on the faceplate. For more information on selecting modes, please refer to the unit's operation manual.

Note: For steps 2 and 3 below, the cables with 15-Pin and 9-Pin D-Sub connectors are not included.

2. Connect the Com Port on the back panel of the BlueWave® 200 Version 3.0 to the Comp Port (DB15) (Figure 2, A) located on the back panel of the External Timer Control Unit.
3. If applicable, connect the External Dry Contact Source to External Timer Control Unit through the EXT Port (DB9) (Figure 2, B) or the Foot Switch Jack (Figure 2, C).
4. Connect the supplied Power Adaptor to the External Timer Control Unit's 24 VDC Jack (Figure 2, D).
5. Turn on the Power Switch (Figure 1, E). The display will illuminate.
6. Using the Time Adjustment Buttons (Figure 1, B), set the desired exposure time.

Note: The unit has a range of 000.0 to 999.9 seconds.

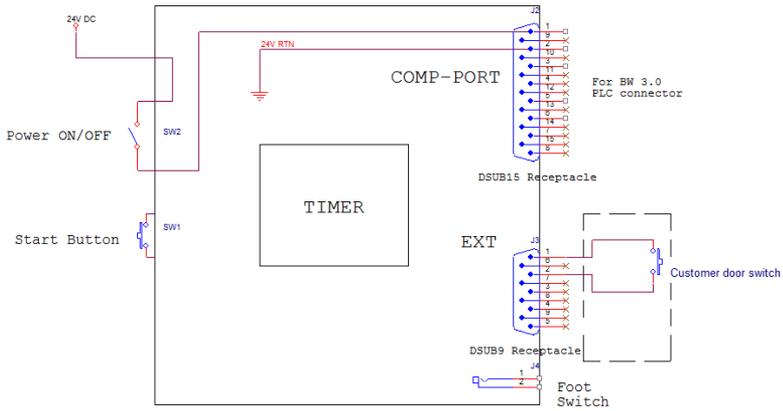
7. Press the Start Button (Figure 1, D), depress the Foot Switch, or activate the contacts connected to the EXT Port to start the exposure cycle.
8. During the exposure cycle the exposure time will count down and automatically reset when the cycle is completed.
9. Press the RST Button (Figure 1, C) on the timer at any time to cancel the exposure cycle and close the shutter

For additional information, please contact Dymax Application Engineering.

System Connections

Figure 3 displays a block diagram which shows the connections for the unit.

Figure 3.
Block Diagram



Specifications



Property	Specification
Part Number	42050 External Control Unit Module
Power Requirements	100-240 V, 50-60 Hz (auto ranging)
Output	24V DC, 1.5A
Timer	000.0 to 999.9 seconds
Activation	Foot switch, start button, or EXT contact switch
AC/DC Adaptor Cable	40" [100 cm]
I/O Port	15-Pin D-Sub and 9-Pin D-Sub (Cable not
Signals (PLC Integration)	<p>Inputs Shutter activate, shutter deactivate, lamp control, PLC enable</p> <p>Outputs Unit status, temperature fault, shutter fault, lamp status, power status, shutter status, lightguide status, bulb life warning, bulb life expired</p>
Dimensions (W x D x H)	5.0" L x 4.0" W x 3.5" H(127.0mm x 101.6mm x
Weight	Less than 2.2 lbs. [1 kg]
Unit Warranty	1 year from purchase date
Operating Environment	0 – 40 °C, non-condensing
Compatible Accessory	40402 , foot switch
Certifications	RoHS

Warranty

From date of purchase, Dymax Corporation offers a one-year warranty against defects in material and workmanship on all system components with proof of purchase and purchase date. Unauthorized repair, modification, or improper use of equipment may void your warranty benefits. The use of aftermarket replacement parts not supplied or approved by Dymax Corporation, will void any effective warranties and may result in damage to the equipment.

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