

# Programmable Length Cutter Controller

Program your cutter to the exact length you need with AceTRONIC's Programmable Length Cutter Controller

## General Description

The Durant Ambassador 576X-402 is a count control device with three count registers - main counter, batch counter, and totalizer. The main counter has one preset and is typically used to control cut length, fill quantity, or number of pieces/containers. The batch counter counts the number of times the main counter has cycled and typically represents values such as: pieces cut, containers filled, cartons made and etc. The batch preset is useful for signaling or stopping the process when the desired amount of product is completed. The totalizer accumulates the total number of counts processed by the main counter. Its value represents the total amount of material used by a process or the total number of pieces processed.

## Programmable I/O

One of the unique features of the Ambassador family of counters is the programmability of the inputs and outputs. Each of the four inputs can be independently programmed to perform one of eight functions. The user can also select which events (counter preset outputs, reset signals, output control inputs, output timers, and serial commands) cause each of the three outputs (1 relay and 2 transistor), to pick-up and drop-out. Any input(s) may be programmed for output control, however, multiple output control inputs are paralleled into a single output control channel in the unit.

## Rate Metre

In addition to count/control capabilities, a rate metre is provided to monitor the speed of the incoming count signal. The rate feature uses the 1/tau method (event time measurement), and can calculate and scale the rate so that even a low count speed (1 Hx), can yield accurate rates in engineering units (ft/sec, gal/min, etc). The rate feature operates simultaneously with the count/control functions.

## Display

All Ambassador Count/Controls are available in green backlit LCD displays and reverse image red LCD display versions.

*Manufactured and Distributed in Canada by AceTRONIC*

## Technical Specifications

### Power Input

115VAC, 230VAC, 24VAC  
50/60 Hz  
12VDC 100mA

### Main Counter

Type: Bidirectional  
Digits: 6  
Presets: 2  
Reset Modes: Auto or manual reset to zero or preset  
Scaler Range: 0.00001 to 9.99999  
Decimal Pt: 5 positions programmable  
Output Latency: 0.7 to 2.7 mS

### Batch Counter

Type: Increment with main counter preset signal  
Digits: 6  
Presets: 1  
Output Latency: 0.7 to 2.7 mS

### Totalizer

Type: Bi-directional, same or opposite of main counter  
Digits: 8  
Scaler: Shared with main counter  
Decimal point tracks main counter  
Accepts inputs from proximity switches, encoders, solid state devices, potential free contacts like limit switches, relays, etc.  
Relay Output: 2  
Type: SPDT contacts  
U>L Rating: 250VAC, 115VA

### Transistor Outputs (2)

Type: NPN open collector with transient protection  
Maximum Voltage (off state): 30VDC  
Maximum Current (on stage): 200A @ 1.3VDC

### Communication

RS-485  
Type: SPDT contacts  
U>L Rating: 250VAC, 115VA

# BRINGING CONTROL TO YOUR MEASUREMENT

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**QUALITY - DEPENDABILITY - ACCURACY - FAST SERVICE - TECH SUPPORT**

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