E_T•N Cutler-Hammer

Specific Control & Display Products

Product Focus

Monitoring, Measurement, Control & Display





Eaton challenges you to Get Specific with innovative industrial control products that meet your exacting application requirements. With everything from relays and operator interface to motor control products, such as drives and soft starters, Eaton has the logic and power control products that keep your machinery and processes running efficiently and effectively.

What are Specific Control & Display products? Simply put, they're the totalizers, timers, flow controllers, ratemeters, hour meters and count control products you use everyday to control single-purpose machinery and monitor process parameters in complex control schemes. These products are a perfect fit for processes where measurement needs to be controlled or

displayed—cut-to-length, flow measurement, parts counting and material handling applications, for example. Used as machine control in smaller applications, or as displays for specific parameters in larger, PLC-controlled equipment, Eaton's Specific Control & Display products are the answer to your monitoring, measurement, control and display needs.







Totalizers

Totalizers are the simplest and most common type of counter, used in a variety of applications where accurate totals are needed, including counting the number of parts produced, amount of material used, or the number of machine cycles occurring.

Count Control

Count control products provide output signals at preset count values. When signaling is needed for cut-to-length, batching, filling, mixing and dispensing applications, count control products offer the solution.

Ratemeters

Commonly included as a standard feature on totalizers and count control products, ratemeters are used where it is necessary to monitor the speed of a process. Conveyors, baking ovens, material flow and motor speed are characteristic of the types of processes in which ratemeters are applied.

Choose the Right Product for Every Application.

Digital Panel Meters

When your application calls for variable indication, Digital Panel Meters (DPM) are the right tool. Voltage, current, pressure, volume, temperature, frequency and other parameters can be monitored and displayed. With a variety of input and ouput options, DPMs can be used in most any application and the product's short depth makes it flexible and accommodating to panelbuilders' needs.

Timers

Timers are used in applications where time is the main focus. To make a process more efficient, effective or safe, timers are used to determine how long a machine has been running in order to schedule machine maintenance.

Flow Totalizers & Control

Flow products are used in a variety of applications where liquid or gas flow needs to be monitored or controlled. In many processes, both the total quantity of product being produced and the rate at which the product is being produced must be known; flow controllers can offer that information while monitoring your process efficiency.

Integrated Machine Control

As part of a robust package, integrated machine control products have high-speed count functions; including scaling, main counter, five presets, prewarn, totalizer, batch and rate. A flexible display with selectable character sizes, run screens, ladder triggered messages and a well-understood programming method allow flexibility in control functionality.











A History of Innovation and Reliability

Dependable and innovative Durant® industrial control solutions have been in the global marketplace since 1879. More than a century ago, Durant products led the marketplace in the development and application of mechanical counters for use in flour production. The Durant counter quickly became the industry standard.

Today, Eaton manufactures the same Durant products that catapulted counters into the industrial marketplace, and continues to aggressively grow the product line, offering OEMs, panel-builders and users the most technologically advanced control, measurement, monitoring and display products, under both the Durant and Eaton brands, to meet a broad range of application requirements.

Combined with a history of innovation is a commitment to quality, reliable products. The manufacturing facility for Eaton's Specific Control & Display products is ISO 9001 and ISO 14000 certified and committed to

leading-edge manufacturing processes such as just-in-time, statistical process control and continuous flow. Quality, precision, trouble-free performance, durability, and ease-of-operation are the goals the product line and the manufacturing processes are measured against.

For your specific application, choose the brand whose history reinforces a dedication to innovation and quality unmatched in the industry.





Customize Your Product For Your Application

Many OEMs require a specific set of control options to run single-purpose machinery. Eaton's Specific Control & Display products are the perfect place to start building a customized control package. Because your application is unique, and your control platform must be flexible to accommodate changes in application or data requirements, much of the standard product offering is built for easy customization. With easy-to-program software and selectable output parameters, Eaton's Specific Control & Display products become the control products you need them to be.

If the standard product doesn't meet your unique application needs, Eaton is committed to finding a solution. This is made easy as the many knowledgeable engineering and technical support engineers understand the intricacies of using products in the field. They are committed to answering questions and creating custom programs to meet the demands of your machinery.

In addition to application focused engineering resources, Eaton will not only modify product software or firmware to account for varying application requirements, but also has the capability to manufacture a custom printed circuit board assembly. These custom printed circuit boards would be manufactured with your unique application in mind, making it the perfect solution for your specific-purpose machinery.

It's all about making products to meet your needs. Eaton offers you the choice of flexible products, built for customized programming, or modified products built to your specifications. A true business partner designs application specific solutions. No one does that better than Faton

Complete Control Solutions

Having to use multiple sources for control products can be difficult. With different shipping schedules, programming interfaces and technical support teams, running your machinery at peak performance can at times be a challenge.

Offering a complete line of feature-rich motor and logic control solutions is Eaton's way of demonstrating that it cares about your entire control system, from protection and control to wiring, termination and display. The purpose is to manage and provide the portfolio of products

you need to keep your processes running efficiently and effectively.

If your application calls for a variety of control and display products, remember that Eaton offers a broad range of products to meet almost any specification. You'll get the product you need, when you need it and have a single-source of support with application engineers who know the industry.

When you're looking for a supplier you can trust, whose broad product offering will meet your machinery control needs, turn to Eaton.



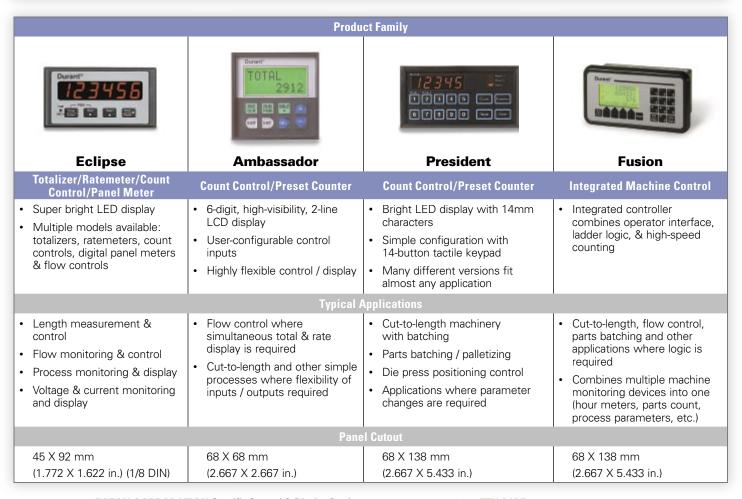
Product Family E5-024-C E5-224-C E5-x24-E E5-148-C Panel Meter / Totalizer / **Totalizer** Timer **Count Control/Preset Counter** Ratemeter / Timer • Non-replaceable battery • Non-replaceable battery Compact device with bright, · Low cost, simple count (min. 8-vr. life) (min. 8-vr. life) LED display control Multiple functions available: Compact, low cost and high Compact, low cost and high Various power options: efficiency count, time, rate, multi-function, efficiency battery, ac, dc double-function, process 8-digit LCD totalizers 8-digit LCD timer Easy-to-change preset values indication Manual or electrical reset 2-line display: input and Manual or electrical reset 24V dc power preset values Various counting modes/ Various timing modes inputs (hr/min/sec) Replacement for mechanical Test equipment Count, measure, time where Cut-to-length machinery small package & easy-to-read counters Small machine run-time Parts batching / palletizing display required Transaction counting indication Die press positioning control Position display Timing applications where no Parts counting power supply is available Motor / pulley rpm Position indication or measurement

22 X 44 mm

(0.870 X 1.772 in.) (1/32 DIN)

45 X 45 mm

(1.772 X 1.772 in.) (1/16 DIN)



22 X 44 mm

(0.870 X 1.772 in.) (1/32 DIN)

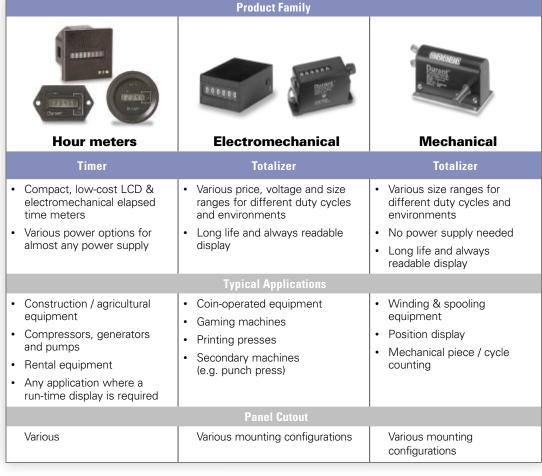
22 X 44 mm

(0.870 X 1.772 in.) (1/32 DIN)

Product Family E5-248-C E5-496-E Courier **Count Control** Totalizer/Ratemeter/Timer **Totalizer/Ratemeter** · Panel-mount, battery · Economical, multi-function · Replaceable lithium battery powered time relay display 8-digit, high-visiblity • 8 timing modes, 9 time · Large, LED characters LCD display ranges · Ac or dc power options Optional backlighting 3 programmable activation Various input options modes available 8A relay contacts (n.O. Or n.C) Time relay applications where Count, measue, time where Portable/mobile/remote no external voltage supply is large, easy-to-read display flow monitoring (e.g. Sewer available and/or programming required pumping, pesticide application) required from front panel Position display Position display, rpm Motor / pulley rpm Length measurement (e.g. Carpet, cable) 45 X 45 mm 45 X 92 mm 33 X 68 mm

(1.772 X 1.622 in.) (1/8 DIN)

(1.772 X 1.772 in.) (1/16 DIN)



(1.299 X 2.677 in.)

Eaton's electrical business is a global leader in electrical control, power distribution, uninterruptible power supply and industrial automation products and services. Eaton's global electrical brands, including Cutler-Hammer, Powerware, Holec and MEM, provide customer-driven PowerChain Management solutions to serve the power system needs of the industrial, institutional, government, utility, commercial, residential, IT, mission critical and OEM markets worldwide.

Eaton Corporation is a diversified industrial manufacturer with 2006 sales of \$12.4 billion. Eaton is a global leader in electrical systems and components for power quality, distribution and control; fluid power systems and services for industrial, mobile and aircraft equipment; intelligent truck drivetrain systems for safety and fuel economy; and automotive engine air management systems, powertrain solutions and specialty controls for performance, fuel economy and safety. Eaton has 60,000 employees and sells products to customers in more than 125 countries. For more information, visit www.eaton.com.

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