





- Easily programmed from the front panel
- Remote reset capability
- Input variety: Quadrature, Switch, TTL, CMOS, NAMUR, PNP, NPN
- Software functions include: Password Display Scaling Set Point Programming Decimal Point Selection
- 5 amp relay outputs
- Optional 12DCV Excitation

The S660 is a versatile totalizing counter that can be adapted to a wide variety of counting, measuring and controlling applications. The control inputs offer several counter operation modes: count/direction, add/add, add/subtract, subtract/subtract, quadrature and reverse quadrature. Optional relay outputs enhance the counter from a passive device to an integral control element for your application.



S660 Preset Totalizer Counter

Specifications

DISPLAY
Туре
Height
Decimal Point
Count Direction
Display Range
Output Indicators

AC Voltages

POWER REQUIREMENTS

Power Consumption
INPUT RATINGS

Current Sinking Current Sourcing Minimum Pulse Width

Low Pass Filter Low Bias High Bias Count Rate Maximum Voltage Input A, B, and User

INPUT User Input

Standard Input Quadrature Input

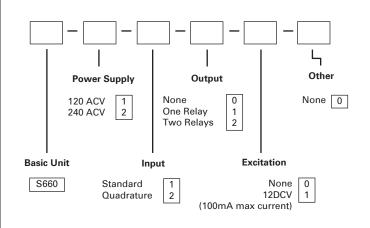
ENVIRONMENTAL Operating Temp. Storage Temp. Relative Humidity

Ambient Temperature Temp. Coefficient (per °C) Warmup Time

MECHANICAL Bezel Depth Panel Cutout Case Material Weight

3.93" x 2.04" x .52" (99.8mm x 51.8mm x 13.2mm) 3.24" (82.3mm) 3.62" x 1.77" (92mm x 45mm) PBT-ABS 9oz (255.1g)

Ordering Information



0.56" (14.2mm) User-programmable "+" indication implied, "-" indication displayed -99,999 to +999,999 1 and 2

6-digit, 7-segment, red LED

120, 240VAC, ±10% 3VA

10K Ω 5% Resistor pull-up to (9.0 - 16DCV) ±10% 5.1K Ω 5% Resistor pull-down to common ~5 μs

<200Hz VLT = 1.6V ±10% VUT = 3.6V ±10% VLT = 5.0V ±10% VUT = 7.0V ±10% 20KHz (Pulse Max) 5KHz (Quadrature X4 Max)

30DCV (Max)

0°C to +40°C

±100ppm/°C

15 minutes

25°C

-10°C to +60°C

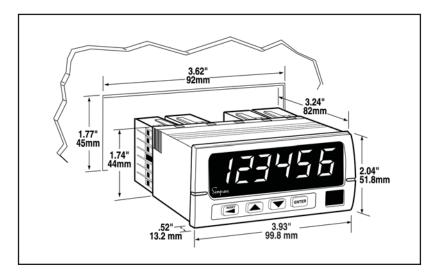
(Display Hold) Display is frozen when the User Input is pulled low. VLT $\leq 0.2DCV$ guaranteed low, VUT = 3.0DCV (max) VLT $\leq 0.9DCV$ VUT = 3.15DCV (max)

0-80% non-condensing for temperatures less than 32°C, decreasing linearly to 50% at 40°C

Counter Accessories



Dimensions - S660, S661, S662, S663, S664



Accessories



Chariot

The Chariot is used to mount most cubestyle quadrature encoders and measuring wheels. Made of anodized aluminum, the chariot includes mounting hardware and selectable pivotal points. Wheels, tires, and flexible shaft couplings are sold separately.

Catalog No. 46012





Flexible Shaft Couplings

The one-piece flexible coupling connects the shaft of a cube-style encoder to an ancillary equipment shaft without worry of misalignment of rotary frequency. The coupling ensures minimum windup, minimum rotary oscillation, and no hysteresis. A Simpson 12" anodized aluminum measuring wheel is the right choice to complete the setup of a length measurement system. Whether the application requires one or two, Simpson's measuring wheels will perform accurately and reliably throughout the measuring process. Also included on the measuring wheel is a printed alignment scale which assists in the installation and measurement of the length measurement system. Simpson offers four replaceable durometer tires that consist of a black tire that has a longer life span and three non marking tires. The three non marking tires are for delicate materials such as plastics, textiles, wood, metal and paper to prevent tearing, damage or marking of delicate materials.

Description

Catalog No.

Coupling: For connecting an encoder to a 3/8" shaft46002Coupling package: For connecting an encoder to 1/4"46003or 5/16" diameter shaft*46003

*Package includes: One flexible coupling (1/2" I.D.) and three reducing inserts (1/4", 5/16", 3/8").

Tire Durometer

Catalog No.

80A, black tire; longer service life for plastics, metals	46004
83A, non-marking tire for textiles, medium textures	46005
92A, non-marking tire for plastics, metals, coarse wood	46006
70A, non-marking tire for soft textiles	46007