

KAT-SP-SPS

Self-Powered Electronic Preset Counter



CE

The KAT is a digital programmable preset counter for a range of different applications including batch counting, length measurement or stop-start control. It is available in two versions: the *KAT-SP* with optocoupled input and the *KAT-SPS* with switch closure input. Both feature a two-line LCD display. The main display indicates count value, the bottom shows the preset set point.

Key Features

- Internal Battery Powered
- Programmable N.O. or N.C. Relay
- Output Replaces Electromechanical Units
- 6 Digit LCD Display Main & Lower LCD
- Displays Indicate Counter and Preset Values without External Power
- Add or Subtract Count Control
- Optically Isolated Count and Reset Inputs

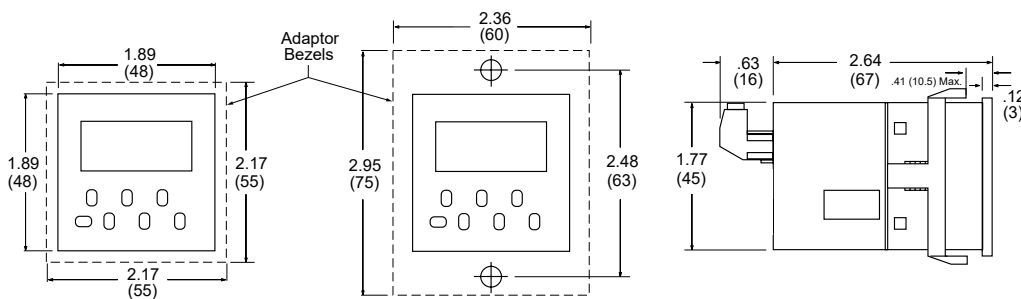
Applications

- Batch counting and batch control
- Coil winding and wire cutting
- Length measurement
- Packing-line control
- Stop and start control
- Numerical position control.

Specifications

Display:	2 lines of 6 digits, black on silver background. Main display .275" (7mm); indicates count value. Bottom display .157" (4mm); shows preset set point, "output on" and "low battery" indicators.
Preset Point:	Single preset, user selectable: count up with output at preset (add), or count down with output at 0 (sub).
Reset:	Manual, electrical and automatic. User selectable for reset to zero (add) or reset to the preset value (sub).
Inputs (Count & Reset):	Count Speed: Max. 35 Hz (min. 14 mSec On/Off) Reset: Edge Triggered, Minimum pulse 50 mSec
Optocoupled (STD) KAT-SP	Low: Open or 0 to 2V High: 12-250 VAC/VDC Input Impedance: 100 kΩ
Switch Closure (Option S) KAT-SPS	Low: 0 to 0.8V High: Open or 2 to 5 VDC Sink Current: 5 mA, (DO NOT EXCEED 5 VDC)
Programming	Via six front-panel digit keys (one key assigned to each digit) and one front-panel reset key.
Output	Relay (N.O. or N.C.) self latching, contacts rated at 2A @ 30VDC, 0.5A @ 240VAC resistive load. In the manual reset mode (loop off), the output will remain latched until reset. In the auto-reset (loop on) mode the output will remain "on" for a user selectable time delay (100 to 500 msec.).
Batteries	Two internal, customer replaceable 3V lithium batteries provide power and data retention for up to 8 years (calculated at 5 x 10 power operations @ 25°C).
Battery Monitor	Subsidiary display shows LO-BAT when batteries require replacement.
Noise Immunity	To VDE 843, Part 4, Severity 3
Temp Range	Operating: +14°F to +122°F (-10°C to +50°C) Storage: -4°F to +140°F (-20°C to +60°C)
Protection	Front Panel is NEMA 4/IP65 sealed
Weight	Approx. 80g
Approvals	CE Approved

Dimensions



Panel Cutout

1.89 x 1.89 (48 x 48)
2.17 x 2.17 (55 x 55)
2.95 x 2.36 (75 x 60)
2.95 x 2.36 (75 x 60)

Bezel Size Cutout

1.77 x 1.77 (45 x 45)
1.97 x 1.97 (50 x 50)
1.77 x 1.77 (45 x 45)
1.97 x 1.97 (50 x 50) w/ Screw Holes

Adaptor bezels supplied

2.17 x 2.17 (55 x 55) or
2.95 x 2.36 (75 x 60)

Part Number Ordering Chart

KAT-SP
KAT-SPS

With opto input
With switch closure input

N7
KATSP-BAT

Explosion proof housing
Replacement Battery (2 required)

