

KALTROL-SP

Features

- Internal Battery Powered (8 years)
- Programmable N.O. or N.C. Relay Output
- Replaces Electro-Mechanical 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 control, coil winding and wire cutting, length measurement, packing-line control, stop/start control and 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 k Ω

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 10⁶ power operations @ 25°C).

Battery Monitor: Subsidiary display shows LO-BAT when batteries require replacement.

Noise Immunity: To VDE 843, Part 4, Severity 3

Temperature 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. 80 g

Approvals: CE Approved

Self Powered, Preset Counter Replaces Electro-Mech. Counters



Operating The Counter:

Setting or Resetting

Press the red SET button or apply a pulse to the reset input to set the counter to zero (add) or the preset (sub).

Presetting

The preset is displayed on the lower line of the display. To set the preset, use the 6 keys assigned to the 6 digits. The unit must be reset to accept the new preset value.

Overflow and Underflow

In the adding mode the overflow is 999999 to 0; In the subtracting mode it is 0 to 999999. The output signal remains unaffected.

Lo-Bat Indicator

When the battery charge is too low, "Lo-bat" will appear on the lower line of the display and flash in 2 second intervals. When "Lo-bat" is indicated, the batteries should be replaced as soon as possible.

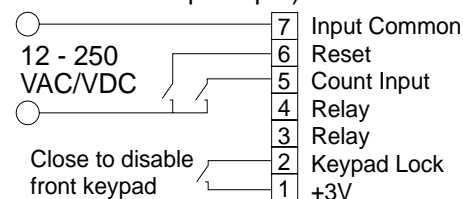
Changing the Batteries

Push the battery cover back and remove the batteries. Insert the replacement batteries making certain that the polarity is correct (observe "-" terminal on PCB).

Note: If the battery replacement takes longer than 7 minutes, the count, preset and program parameters will be lost. If this occurs, the unit will automatically enter the programming mode upon battery installation.

KAT-SP Wiring Connections:

(Standard KAT-SP Opto Input)



KAT-SPS Wiring Connections:

(Optional KAT-SPS Switch Closure Input)

