

## Trumeter Counters & Timers

(formerly **KEP**)

### KAL-D06 8 Digit Electronic Counter

- Low speed input for contact closures
- High speed input sinks 18V max
- Optional quadrature & high voltage inputs
- 10 year lithium battery – no external power needed
- NEMA 4X (IP65) front
- UL recognized



#### SPECIFICATIONS

Display:	LCD, digits 0.35" (9mm) high
Readout:	8 digits with leading zero blanking
Reset:	Panel or external (can be disabled)
Backlight:	Requires external 5V supply (20 mA)
Hi-speed Input:	NPN sink; 18V, 10kHz max
Lo-speed Input:	NPN sink or contact closure; 18V, 30Hz max
Quadrature Input:	NPN sink or push pull, 18V, 2.5kHz max
Reset Input:	>15ms NPN sink or contact closure; 18V max
Direction Input:	NPN sink or contact closure; 18V max (Lo=down)
Hi-voltage Input:	Count 10 pulses/sec max; opto-isolated 250VAC/120VDC max
Hi-voltage Reset:	>15ms, opto-isolated 250VAC/120VDC max
Temperature:	-10 to 60°C operating
Case:	24 x 48 x 52 mm

### KAL-DTIME 8 Digit Electronic Timer

- Electronic or contact closure input
- Powered by 10 year lithium battery
- High voltage input optional
- NEMA 4X (IP65) front
- UL Listed



#### SPECIFICATIONS

Display:	LCD, digits 0.35" (9mm) high
Readout:	8 digits with leading zero blanking SECONDS: 99999999 MINUTES and SECONDS: 99999-59 HOURS and 1/100ths: 99999-99 HOURS and MINUTES: 99999-59
Reset:	Panel or external (can be disabled)
Backlight:	Requires external 5V supply (20 mA)
Timing Input:	NPN sink, negative edge trigger; 18V max
Reset Input:	>15ms NPN sink or contact closure; 18V max
Direction Input:	NPN sink or contact closure; 18V max (Lo=down)
Hi-voltage Input:	Opto-isolated 250VAC/120VDC max
Hi-voltage Reset:	>15ms, opto-isolated 250VAC/120VDC max
Temperature:	-10 to 60°C operating
Case:	24 x 48 x 52 mm

### 924K Counter, Rate Meter & Timer

- Displays actual value, presets, batch count or total count
- 3 predefined parameter settings
- Tracking presets
- 4 stage RESET modes
- 2 relay outputs
- 3 stage key lockout



#### SPECIFICATIONS

Display:	2 line, 6 digit red LCD
Count Inputs:	NPN/PNP, 5kΩ, 55 kHz max
Switching Level:	Low=0-4 VDC, High=12-30 VDC (924KA)
Count Modes	
Pulse:	cnt.dir, up.dn, up.up, quad, quad 2, quad 4, A/B, (A-B)/A x 100%
Frequency:	A, A-B, A+B, quad, A/B, (A-B)/A x 100%
Timer:	FrErun, Auto, InpA.InpB., InpB.InpB.
Monitor/Reset Inputs:	MPI, lock, gate, reset
Pulse Duration:	10 ms/1 ms min.
Relay 1:	Form A, programmable NO or NC
Relay 2:	Form C
Max. Switching:	250 VAC / 110 VDC, 3 A, 750 VA / 90 W
Sensor Supply:	24 VDC, 80mA
Temperature:	-20 to +65 °C operating
Protection:	IP65 (front)
Case:	1/8 DIN (48 x 48 x 107mm)

#### ORDERING INFORMATION

KAL-D06	8 digit counter with 10 yr battery	KAL-DTIME	8 digit timer with 10 yr battery
KAL-DQUAD06	8 digit counter with 10 yr battery & Quadrature Input	KAL-DTIMEAC/DC	8 digit timer with 10 yr battery & High Voltage Input
KAL-D06AC/DC	8 digit counter with 10 yr battery & High Voltage Input	924KA*	Counter, Rate, Timer; 90-260 VAC power
		924KB*	Counter, Rate, Timer; 10-30 VDC power

\*Add suffix 0 for relay outputs, 1 for opto-coupler outputs