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**TEMPOMATIC**<sup>®</sup>  
S.R.L.

**CONTATORI**  
**COUNTERS**

## CONTAORE

**Typo: CONTAHK46**

### CARATTERISTICHE GENERALI:

- Connessione: terminali
- Alimentazione: 24V, 48V, 60V, 110V, 115V, 120V, 230V (+10% / -15%), 400V (+/- 5%)
- Cicli normali: 50Hz, 60Hz
- Consumo: 1.2W at 230V 50Hz
- Protezione alloggiamento: IP-40
- Range della temperatura operativa: -25°C 80°C
- Lettura esatta: 1/100 hour (36 secondi)
- Range di conteggio: 99999.9 ora
- Numero delle cifre: 5 numeri interi, 2 spazi decimali
- Altezza delle cifre: 4 mm
- Colori dei numeri interi: bianco
- Colori dei numeri decimali: rosso
- Colore dell'astuccio: nero
- Posizione operativa: opzionale
- Opzioni di montaggio: G, A, B, C
- Misura frontale: 48x48 mm
- Cornici adattabili: 52x52 mm 55x55 mm
- Versioni speciali: protezione dell'aggiornamento IP 65, segni e iscrizioni addizionali

## HOURCOUNT

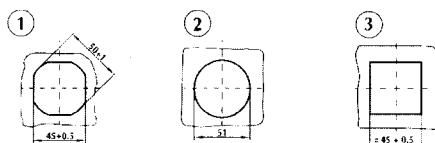
**Type: CONTAHK46**

### GENERAL FEATURES:

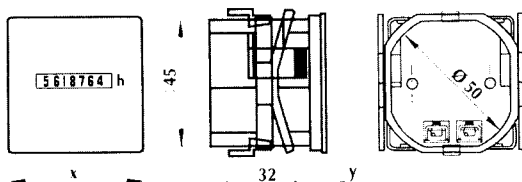
- Connection: terminals
- Power supply (AC): 24V, 48V, 60V, 110V, 115V, 120V, 230V (+10% / -15%), 400V (+/- 5%)
- Normal cycles: 50Hz, 60Hz
- Consumption: 1.2W at 230V 50Hz
- Housing protection: IP-40
- Operating temperature range: -25°C 80°C
- Exact reading: 1/100 hour (36 seconds)
- Counting range: 99999.9 hour
- Number of digits: 5 integers, 2 decimal places
- Digit height: 4 mm
  - integers: white
  - decimal places: red
- Casing colour: black
- Operating position: optional
- Mounting position: G, A, B, C
- Front dimension: 48x48 mm
- Adapter formes: 52x52 mm 55x55 mm
- Special versions: housing protection IP - 65 additional inscriptions and signs



### Mounting hole



### Mounting G



x (mm)	y(mm)	Mounting hole
48 x 48	6	1
52x52	8	1, 2 or 3
55 x 55	8	1, 2 or 3
72 x 72	8	1, 2 or 3

## MINI CONTAORE

**Typo: CONTAHK30**

### Highlights

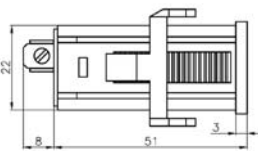
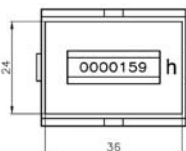
- Price competitive meter
- Excellent quality
- Long lifetime
- Different models for different markets
- All necessary approvals
- Your branding available

## MINI HOURCOUNT

**Type: CONTAHK30**

### Applications

- Gen-sets
- Compressors
- Pumps
- Medical equipment
- Control panels
- Air conditioning



Mechanical data	
Front dimension	36 x 24 mm (standard)
Display	DC: 5 integers, 2 decimals DC: 6 integers, 1 decimal without reset
Digit height	4 mm
Digit color	integer: white on black decimal: 50 Hz - red on black 60 Hz - white on black
Counting range	AC: 99999,99 h, DC: 99999,99
Reading accuracy	AC: 1/100 h (36 sec)
Weight	ca. 32 g
Housing color	standard black transparent on request
Bezels for 36x24 mm	48x24, 48x48, 54x29, 55x55, Ø 58, Ø 72, 72x72 mm
Mounting options	D - DIN housing E - 48x48 DIN case G - front 36x24 mm with retainer R - front 40,6x27,5 mm (1,60x1,08") with retainer S - 2-screw front 52x26mm (2,05x1,03")

Electrical data	
Operating voltage	24, 48, 60, 110, 120, 220, 230, 240, 400 VAC ± 10%, 50 or 60 Hz
	6-12, 12-36, 36-80, 110, 220 VDC ± 10%
Current consumption	AC: max. 8 mA DC: max. 9mA
Accuracy	AC: ± 0,02% DC: ± 0,002 %
Connection	flat pin 6,3x0,8 with screw flat pin 6,3x0,8

Ambient conditions	
Operating temperature	AC: -25°C .. +70°C DC: -10°C .. +55°C
	Storage temperature
Relative humidity	max. 80% at +25°C
Protection	IP40 front IP67 front (transparent housing) IP67 totally sealed housing IP00 terminals
Approvals	CE Mark UL E171200 RoHS compliant

## CONTAINPULSI ELETTROMECCANICI

**Tipo: T123**

### DESCRIZIONE

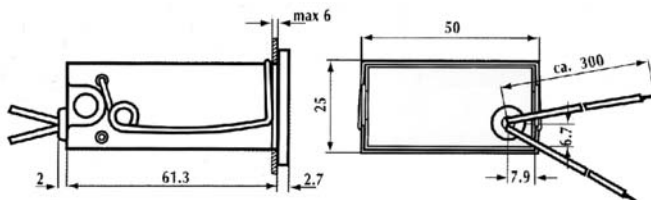
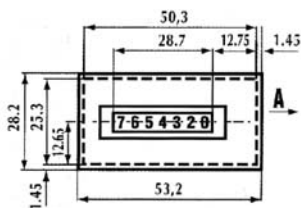
I contatori di questa serie permettono il loro comando direttamente in corrente alternata senza la necessità di raddrizzatori. I contatori possono inoltre essere muniti di dispositivi di sicurezza contro gli urti per impedire che venga manomesso il valore registrato.

### IMPIEGO

Distributori automatici, macchine fotocopiatrici, gettoniere, attrezzi e giochi sportivi, ecc.

### DATI TECNICI

- Sistema di conteggio: 1 impulso = cifra in addizione.
- Indicazione (campo di misura): 6 cifre, 999 999 - 7 cifre 999 999.
- Condizione del numeratore alla fornitura: 500 prima dello zero.
- Cifre: 4 mm in altezza, bianche su fondo nero.
- Allacciamenti elettrici: cavetti di lunghezza ca. 300 mm, con tensioni superiori a 42 V la custodia va collegata a terra mediante la prevista vite.
- Protezione: IP 51 nome DIN 40050
- Tensione di prova: a norme VDE 0435
- Temperatura ambiente: +5°C +50°C.
- Durata media: ca. 50 milioni di scatti
- Fissaggio: F103 posteriore con barretta di fissaggio. F163 con piastra metallica per montaggio sporgente. Montare il contatore solo su una superficie piana.
- Custodia: corpo contatore e base in metallo nichelato, mascherina in plastica nera.
- Peso: ca. 150 g.
- Accessori: barra per F103, lunghezza standard 300 mm, accessorio nr. 080.00.082.



## PULSE COUNTER

**Type: T123**

The series of electromechanical pulse counters is especially designed for instrumentation. For heavy-duty operation, versions are available with a built-in shock protection to prevent from involuntary counting during transport and when operating under mechanical jolts and vibrations. Typical applications are e.g. piece or coin counting on copying, vending and bamlng machines, filling counting on petrol pumps or event counting on soport gear. These counters are totalizing counters without zero reset. They are available for all common AC and DC voltages.

### Mechanical data

Counting	adding without reset
Display	6 or 7 digit
Digit height	4 mm
Digit color	white on black
Housing	plastic black
Operating life	20x10 <sup>6</sup> pulses
Weight	ca. 150 g
Mounting versions	different

### Electrical data

Operating voltage	24, 110, 230 V AC +10% 50 Hz 6, 12, 24, 48 V DC 10%
Power consumption	2 W - DC / 5 VA - AC
Pulse duration	50 ms
Pulse interval	50 ms
Max. counting speed	10 pulses/sec
Cycle duration factor	100%
Connection	wire leads ca. 300 mm.

### Ambient conditions

Operating temperature	-5°C ... +55°C
Storage temperature	-20°C ... +70°C
Protection	IP51
Relative humidity	max. 80% at +25°C

## CONTAINPULSI RESETTABILE

## RESETTABLE PULSE COUNTER



Type:	TSI64	TSI65
Description:	totalizer with manual reset	mini pulse counter with manual reset
Voltages:	12/24 V DC $\pm$ 10% 24/115/230 V AC $\pm$ 10%	12/24 V DC $\pm$ 10% 24/115/230 V AC $\pm$ 10%
Max. count frequency:	25 pulses/sec – V DC 18 pulses/sec – V AC	10 pulses/sec
Min. pulse on time:	24 ms – V DC 22.2 ms – V AC	50 ms
Min. pulse interval	16 ms – V DC 33.3 ms – V AC	50 ms
Power consumption:	approx. 2 W – V DC approx. 2.9 VA – V AC	approx. 0,5 W – V DC approx. 0.75 VA - $\leq$ 115 V AC approx. 1.5 VA - 230 V AC
Electrical connection:	silver plated round pins dia. 1,5 mm	150 mm flying leads AWG 22
No. of digits:	6	5
Digit height:	2 x 4,5 mm	approx. 1,7 x 4 mm
Colour of figures:	white on black	white on black
Shaft:	stainless steel	stainless steel
Reset:	manual	manual
Housing:	black	dark grey
Front dimensions:	53 x 28 mm	48 x 24 mm
Panel cut-out:	50 x 25 mm	45 x 22 mm
Mounting:	panel mount with spring clip fastening	DIN housing for panel mount with clip
Weight:	approx. 83 g	AC 52 g, DC 62 g
Ambient temperature:	-10 ... +600 C – V DC -10 ... +550 C – V AC	-10 ... +500 C
Operating life:	approx. 200 x 106 pulses	approx. 50 x 106 pulses

