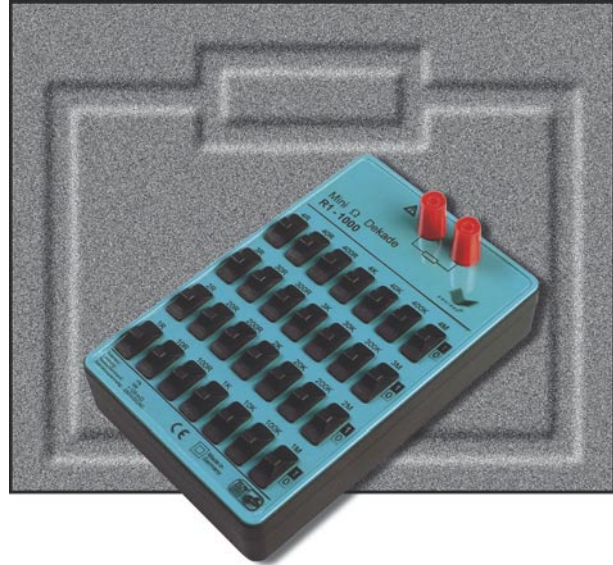


# RESISTANCE DECADE

COSINUS R1-1000



The R1-1000 is equipped with 28 joined 1 Ohm resistances which may be activated singularly by means of sliding switches. The staggering of the resistance values in 1-2-3-4 steps allows an airtight adjustment of the resistance values in 7 decades (1 Ohm to 1,1111 MOhm). The adjustment of 156 kOhm e.g. is made by choosing the following switches: 100 kOhm, 40 kOhm + 10 kOhm, 4 kOhm + 2 kOhm.

The supply is through 4 mm safety sockets.

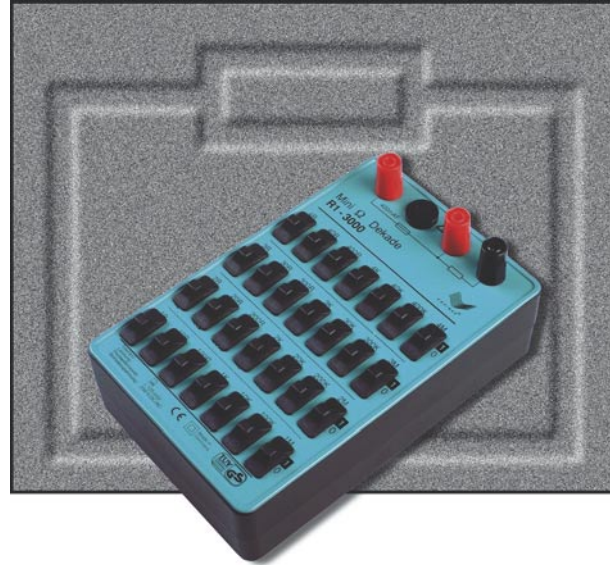
- Range 1 Ohm – 11,1111 MOhm
- Power Rating 1 W
- Accuracy 1 %
- Residual resistance <125 mOhm
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 250 Vrms AC/DC  
Dimensions: 170 x 110 x 46 mm  
Weight: app. 285 g

Prices exclude VAT

# RESISTANCE DECADE

COSINUS R1 – 3000

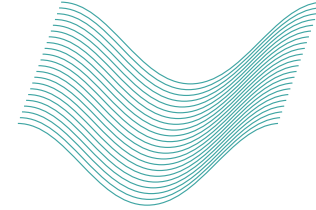


The R1-3000 compared to the R1-1000 offers a higher maximum power rating of 3 W. Additionally, the decade can be protected from an overload by using a quick-acting fine-wire fuse (a 400 mA fuse is supplied as standard accessory). By a non-fused resistance tap the internal resistance of the fuse can be by-passed. This ensures accuracy, particularly when low resistance values are concerned.

- Range 1 Ohm – 11,1111 MOhm
- Power rating 3 W
- Accuracy 1 %
- Residual resistance <125 mOhm
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 250 Vrms AC/DC  
Dimensions: 170 x 110 x 56 mm  
Weight: app. 360 g

Prices exclude VAT



COSINUS®  
Computermesstechnik

Company: \_\_\_\_\_

Name Mrs./Mr.: \_\_\_\_\_

Tel.: \_\_\_\_\_

Fax : \_\_\_\_\_

P.O. no.: \_\_\_\_\_

## FAX – Order

According to your delivery and payment terms I would like to order the following

Article No.:	Quantity	Unit price	Total price

Prices exclude VAT

Place, Date \_\_\_\_\_

Signature \_\_\_\_\_

Address of consignee : \_\_\_\_\_

\_\_\_\_\_

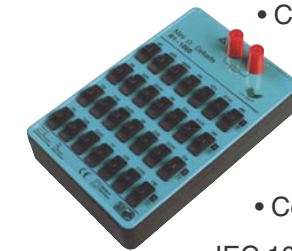
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Precision decades

### 6 good reasons to purchase a COSINUS decade



- Complete programme R-C-L-T
- High power rating up to 3 W
- Long life sliding switches
- Robust ABS plastic case
- Connected by 4mm safety sockets
- IEC 1010 – 1 Kat. I



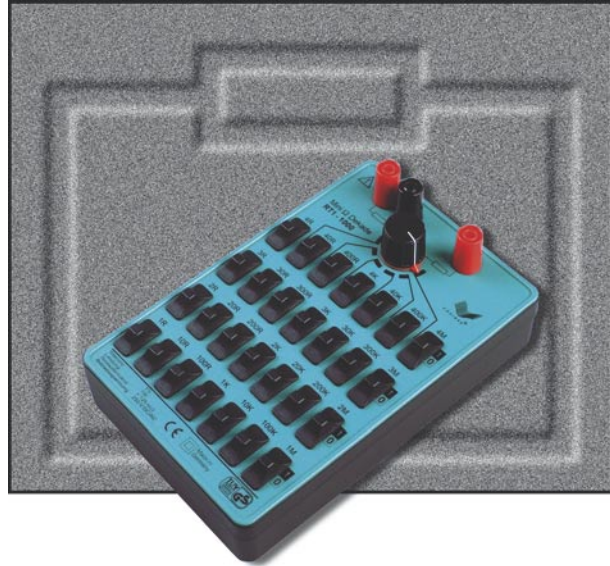
R-C-L-T Decades – anything you can switch.

With COSINUS decades you always have the right component value. These extremely robust devices guarantee suitability for a wide range of experimental applications, e.g. 1 Ohm – 11 MOhm and more.

Made in-house, with permanent markings, they are supplied in an impact and flame resistant ABS case, and are particularly applicable in education.

## RESISTANCE DECADE

COSINUS RT1 – 1000



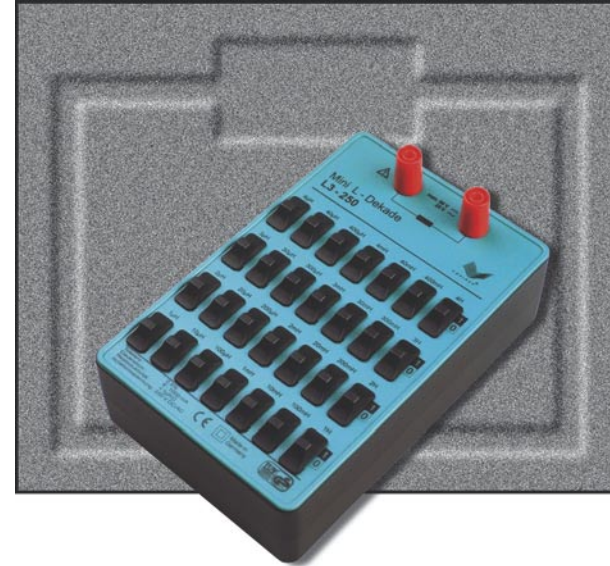
The RT1-1000 has the same technical features as the R1-1000. However, apart from the adjustment of resistance values it can also act as a voltage divider. A switchable tap allows the division of a total resistance of 156 kOhm into 156 kOhm / 0 kOhm, 100 kOhm / 56 kOhm, 150 kOhm / 6 kOhm, 156 kOhm / 0 kOhm. There are 6 switching positions in total for a real resistance division.

- Range 1 Ohm – 11,11111 MOhm
- Power rating 1 W
- Accuracy 1 %
- Temperature coefficient 50 ppm
- Residual resistance <125 mOhm
- Rotary switch for resistance division
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 250 Vrms AC/DC  
Dimensions: 170 x 110 x 46 mm  
Weight: app. 360 g

## INDUCTANCE DECADE

COSINUS L3 –250



The L3-250 renders inductance values in a range of 7 decades: 1  $\mu$ H – 11,11111 H. A staggering of the inductance values in 1 – 2 – 3 – 4 steps allows an airtight adjustment by means of sliding switches. The tapped value equals the sum of the adjusted inductance values. The use of ferrite cores allows all these features to be included in one compact design. The supply is through 4 mm safety sockets.

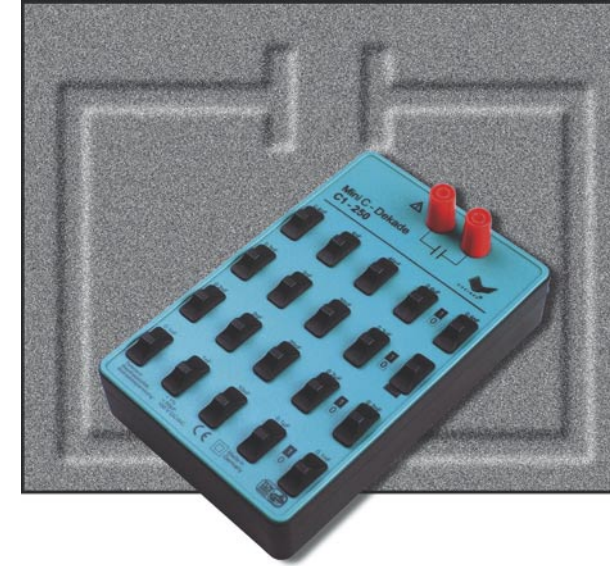
- Range 1  $\mu$ H – 11,11111 H
- Accuracy  $\pm$  2,5 % (1 kHz)
- Residual inductance <1  $\mu$ H
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 25 Vrms AC / 60 V DC  
Max. operating current: depending on the adjustment 8-1000 mA  
Dimensions: 170 x 110 x 46 mm  
Weight: app. 625 g

Prices exclude VAT

## CAPACITANCE DECADE

COSINUS C1 – 250



The C1-250 renders capacitance values in a range of 5 decades: 100 pF – 11,111  $\mu$ F. A staggering of the capacitors in 1-2-3-4 steps allows an airtight adjustment by means of sliding switches. The tapped value equals the sum of the adjusted capacitance values. The capacitor is automatically discharged when the corresponding slide is switched off. The supply is through 4 mm safety sockets.

- Range 100 pF – 11,111  $\mu$ F
- Accuracy 1 %
- Residual capacitance <75 pF
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 163 Vrms AC / 250 V DC  
Dimensions: 170 x 110 x 46 mm  
Weight: app. 470 g

Prices exclude VAT

## EXACT PRECISION TIMER

COSINUS Mini – T



The Mini-T is a compact electronic precision timer (rectangle signals) independent from a power system. The adjustable range for the period is 1  $\mu$ s to >10 s and 0,1 s to >1 Ms (quartz stable). The period adjustment is by means of sliding switches in 1-2-4-8 steps (dual code). Apart from the continuous output signal the Mini-T offers the possibility of external triggering or gating. There are several outputs.

- Voltage output
- Capacitor output with open collector
- Potential free relay output (max. breaking capacity 250 V / 3 A) for  $t > 0,1$ s
- DIN EN ISO 61010 Part 1/A1
- DIN EN ISO 61326 Part 1/A1

Max. operating voltage: 250 Vrms AC/DC  
Dimensions: 170 x 110 x 56 mm  
Weight: app. 850 g

Standard accessory: T-Decade with English/German instruction manual and battery charger EB-512-15V

Prices exclude VAT

Prices exclude VAT

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