



Serie "Classic"

For measuring direct and single- and three-phase active power (effective value!).
During measuring the power in networks having low $\cos \varphi$, the instrument provides exact reading.

Technical data

Movement: the magnetic shielding of the electrodynamic movement with taut-band bearing allows the instrument to be used in inhomogeneous magnetic field.

Scale: Practically linear calibration.
Scale length: 120 mm.

Class of accuracy: 1 ($\cos \varphi = 0,2$, and $\cos \varphi = 0,5$), 1,5 ($\cos \varphi = 0,1$) according to EN60051

Rated power factor ($\cos \varphi$): 0.1 or 0.2 or 0.5

Rated power: $U \cdot I \cdot \cos \varphi$ (HEWa, HEWa-b),
 $\sqrt{3} \cdot U \cdot I \cdot \cos \varphi$ (HEWa-b)

Continuous overload: $1.2 \cdot I_N$, and $1.2 \cdot U_N$

Frequency range: 40...60...100 Hz

Position of application: horizontal.

Safety: IEC 1010/ EN 61010-1 class 2, degree of pollution 2., CAT III. 600V

Weight: approx. 1,4 kg.



Type	Cat. no. 1963-03-..	Current ranges AC/ DC	Selectable voltage ranges AC / DC	
			$\cos \varphi = 0,2$	$\cos \varphi = 0,1$
HEWa ~	313	1A		15-30-60-120-240-480 V
	315	5A		15-30-60-120-240-480 V
	301	0.5-1A	15-30-75-150-300-450-600V	
	305	1A	15-30-75-150-300-450-600V	
	302	2.5-5A	15-30-75-150-300-450-600V	
	306	5A	15-30-75-150-300-450-600V	
	307	10A	15-30-75-150-300-450-600V	

Type	Cat. no. 1963-03-..	Current ranges AC/ DC	Selectable voltage ranges	
			AC / DC $\cos \varphi = 0,2$	Three-phase AC $\cos \varphi = 0,2$
HEWa-b ~ and ~	303	0.5-1A	15-30-60-120-240-360-480 V	52-104-208-416 V
	308	1A	15-30-60-120-240-360-480 V	52-104-208-416 V
	304	2.5-5A	15-30-60-120-240-360-480 V	52-104-208-416 V
	309	5A	15-30-60-120-240-360-480 V	52-104-208-416 V
	310	10A	15-30-60-120-240-360-480 V	52-104-208-416 V

Type	Cat. no. 1963-03-..	Current ranges AC/ DC	Selectable voltage ranges			
			AC / DC		Three-phase AC	
			$\cos \varphi = 0,5$	$\cos \varphi = 0,1$	$\cos \varphi = 0,5$	$\cos \varphi = 0,1$
HEWa-b ~ and ~	316	1A		15-30-60-120-240-480 V		104-208-416V
	318	5A		15-30-60-120-240-480 V		104-208-416V
	372	0,5A	6-12-24-60-120-240-360-480 V	15-30-60-120-240-480 V	104-208-416 V	104-208-416 V
	373	1A	6-12-24-60-120-240-360-480 V	15-30-60-120-240-480 V	104-208-416 V	104-208-416 V
	375	5A	6-12-24-60-120-240-360-480 V	15-30-60-120-240-480 V	104-208-416 V	104-208-416 V

On request other ranges are possible

Customers requirement:

-Portable electrodynamic power meter.
-Range: current 0.5-1A
Voltage: 15-480V AC/DC, 52-416V Three-phase

Ordering data:

-Type: HEWa-b
-Cat. No. 1963-03-303
 $\cos \varphi = 0,2$



PEWA
Messtechnik GmbH
Weidenweg 21
58239 Schwerte

Tel.: 02304-96109-0
Fax: 02304-96109-88
E-Mail: info@pewa.de
Homepage : www.pewa.de



Serie "Classic"

For measuring direct and single- and three-phase active power (effective value!).

During measuring the power in networks having low $\cos \varphi$, the instrument provides exact reading.

Technical data

Movement: the magnetic shielding of the electrodynamic movement with taut-band bearing allows the instrument to be used in inhomogeneous magnetic field.

Scale: Practically linear calibration. *Scale length:* 120 mm.

Class of accuracy: 1, acc. to EN60051

Rated power factor ($\cos \varphi$): see table

Rated power: $U \cdot I \cdot \cos \varphi$ (HEWa, HEWa-b),
 $\sqrt{3} \cdot U \cdot I \cdot \cos \varphi$ (HEWa-b)

Consumption of voltage circuit:

0,82 mA ($\cos \varphi = 0,5$), and 4,1 mA ($\cos \varphi = 0,2$) (HEWa , and HEWa-b)

1mA ($\cos \varphi = 1$), and 2,5 mA ($\cos \varphi = 0,5$), and 5 mA ($\cos \varphi = 0,2$) (HEWa)

Continuous overload: $1.2 \cdot I_N$, and see table

HEW <u>a</u>	HEW <u>a</u> -b
$1.25 \cdot U_N$, if $\cos \varphi = 0,2$	$1.2 \cdot U_N$, if $\cos \varphi = 0,2$
$1.5 \cdot U_N$, if $\cos \varphi = 0,5$	$1.5 \cdot U_N$, if $\cos \varphi = 1$
$2 \cdot U_N$, if $\cos \varphi = 1$	

Frequency range: 40...60...100 Hz

Position of application: horizontal.

Safety: IEC 1010/ EN 61010-1 class 2, degree of pollution 2., CAT III. 600V, CAT II. 1000V, CAT I. 1200V

Weight: approx. 1,4 kg



TYPE	Cat. No 1963-03...	Selectable voltage ranges				
		Current ranges AC/DC	AC / DC			Three-phase AC
			$\cos \varphi = 1$	$\cos \varphi = 0,5$	$\cos \varphi = 0,2$	$\cos \varphi = 0,5$
HEW <u>a</u>	355	0,5A		6-12-24-60-120-240-360-480V		
	353	1A		6-12-24-60-120-240-360-480V		
	356	5A		6-12-24-60-120-240-360-480V		
	357	10A		6-12-24-60-120-240-360-480V		
	358	0,1A	3-12-30-60-120-300-600V	7,5-30-75-150-300V	15-60-150-300-600V	
	370	0,5A	3-12-30-60-120-300-600V	7,5-30-75-150-300V	15-60-150-300-600V	
	360	1A	3-12-30-60-120-300-600V	7,5-30-75-150-300V	15-60-150-300-600V	
	362	5A	3-12-30-60-120-300-600V	7,5-30-75-150-300V	15-60-150-300-600V	
	363	10A	3-12-30-60-120-300-600V	7,5-30-75-150-300V	15-60-150-300-600V	
HEW <u>a</u> -b	364	0,1A		6-12-24-60-120-240-360-480V		104-208-416V
	371	0,5A		6-12-24-60-120-240-360-480V		104-208-416V
	366	1A		6-12-24-60-120-240-360-480V		104-208-416V
	368	5A		6-12-24-60-120-240-360-480V		104-208-416V
	369	10A		6-12-24-60-120-240-360-480V		104-208-416V

On request other ranges are possible

-Range: current: 1A

Customers requirement:

-Portable electrodynamic power meter.

Ordering data:

-Type: HEWa.

-Cat. No. 1963-03-360

-Voltage: AC/DC 3-12-30-60-120-300-600V $\cos \varphi = 1$

7,5-30-75-150-300V $\cos \varphi = 0,5$

15-60-150-300-600V $\cos \varphi = 0,2$