



## Serie "Classic"

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

### Technical data

**Movement** ferrodynamic, with spring bearing,  
oil damping, vibration-free pointer motion

**Scale:** Linear calibration.

Scale length: 120 mm

**Class of accuracy:** 1.5 according to EN60051

**Rated power factor:**  $\cos \varphi = 1$  (HFWa, HFWb),  
 $\sin \varphi = 1$  (HFWbm)

**Rated power:**  $U \cdot I \cdot \cos \varphi = U \cdot I \cdot 1$  (HFWa),  
 $\sqrt{3} \cdot U \cdot I \cdot \cos \varphi = \sqrt{3} \cdot U \cdot I \cdot 1$  (HFWb),  
 $\sqrt{3} \cdot U \cdot I \cdot \sin \varphi = \sqrt{3} \cdot U \cdot I \cdot 1$  (HFWbm)

**Consumption:** current circuit: max. 3.5 VA.  
voltage circuit: max. . 6 mA.

**Continuous overload:** 1.2x rated current  
1.2x rated voltage  
(for two hours).

**Frequency range:** 45...50...60 Hz

**Safety:** IEC 010/EN 61010-1, class 2, deg. of poll. 2, CAT III.

**Position of application:** horizontal.

**Weight:** approx. 1,8 kg.



TYPE	Cat. No. 1963-04-...	Class of acc.	Rated current	Rated voltage		Network	Remark
			AC	AC	Three-phase AC		
HFWa	001	1.5	0.5-1 A	48-120-240-480 V		Single phase ~	Active power
	003		0.5-5 A	48-120-240-480 V			
	008		1-5 A	48-120-240-480 V			
	002		2.5-5 A	48-120-240-480 V			
HFWb	004		0.5-1 A		48-120-240-480 V	Three-phase balanced ≡	Reactive power
	005		2.5-5 A		48-120-240-480 V		
HFWbm	006		0.5-1 A		48-120-240-480 V		
	007		2.5-5 A		48-120-240-480 V		

On request other ranges are possible

### Customers requirement:

- Portable ferrodynamic power meter.
- Measuring range:
  - rated current: 2.5-5 A
  - rated voltage: 48-120-240-480 V
- Single-phase AC active power measurement.

### Ordering data:

- Portable ferrodynamic power meter.
- Type: HFWa.
- Cat. No. 1963-04-002

Scale: M=1:1

