



FERRODYNAMIC POWER METERS FOR UNBALANCED CIRCUITS



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

Technical data

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

Two measuring systems!

Scale: Linear calibration.

Scale length: 120 mm

Number of graduation marks: 100.

Class of accuracy: 1,5 according to EN60051

Rated power factor: $\cos \varphi = 1$ (HFWc, HFWd), and $\sin \varphi = 1$ (HFWcm, HFWdm)

Consumption: *current circuit:* max. 2.5 VA.(HFWc, HFWcm) and 5VA (HFWd, HFWdm)
voltage circuit: max. 5 mA.

Continuous overload: 1.2* rated current

1.25* rated voltage (at $\cos \varphi = 1$).





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

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

Position of application: horizontal.

Weight: approx. 2,4 kg.



TYPE	Cat. No. 1963-04-...	Class of acc.	Rated current	Rated voltage	Scale	Network	Remark
			Three-phase AC				
HFWc	102	1,5	1 A	120V	200W	Three phase unbalanced 	Active power
	101		5 A	120V	1kW		
	103		10 A	120V	2kW		
	104		1A	480V	800W		
	105		5A	480V	4kW		
	106		10A	480V	8kW		
	107		1A	30-60-150-240-300-420-480V	52-104-260-416-520-728-832W		
	108		5A	30-60-150-240-300-420-480V	260-520-1300-2080-2600-3640-4160W		
HFWd	302		1 A	120V	200W	Three phase unbalanced, four wires 	
	301		5A	120V	1kW		
	303		10 A	120V	2kW		
	304		1 A	480V	800W		
	305		5A	480V	4kW		
	306		10 A	480V	8kW		
HFWcm	202		1A	120 V	200var	Three phase unbalanced 	Reactive power
	201		5A	120V	1kvar		
	203		10A	120V	2kvar		
	204		1A	480V	800var		
	205		5A	480V	4kvar		
	206		10A	480V	8kvar		
HFWdm	402		1A	120V	200var	Three phase unbalanced, four wires 	
	401		5A	120V	1kvar		
	403		10A	120V	2kvar		
	404		1A	480V	800var		
	405		5A	480V	4kvar		
	406		10A	480V	8kvar		
	407		1A	30-60-150-240-300-420-480V	52-104-260-416-520-728-832 var		
	408		5A	30-60-150-240-300-420-480V	260-520-1300-2080-2600-3640-4160 var		

Customers requirement:

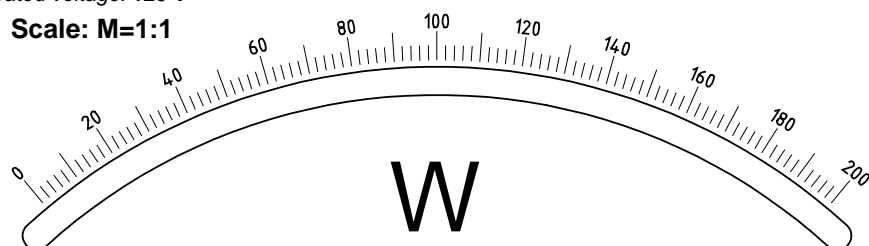
-Portable ferrodynamic power meter for active power

3-ph 3-wire unbalanced circuits

Type: **HFWc**

Measuring range: *rated current:* **5 A**
rated voltage: **120 V**

Scale: M=1:1



Ordering data:

-Portable ferrodynamic power meter.

-Type: **HFWc 1963-04-101**