



48vwA, 72vwA, 96vwA 48vwV, 72vwV, 96vwV

For measuring AC current or voltage.

Technical data:

Movement: moving-coil
with pivot and
spring-type bearing.

Instrument case: non-flammable plastic
acc. to UL 94-V1



Scale length: 28 mm (48vw...), 48 mm (72vw...), 60 mm (96vw...).

Permanent overloading: 1.2 -fold current res. voltage.

Class of accuracy: 1.5 for sinusoidal AC, (calibration is true r.m.s.)

Connection: - 2.8 x 0.5 mm faston (DIN 46247) for types 48vw... and 72vw...
- 4.8 x 0.5 mm faston (DIN 46247) for types 96vw...

Protection: case IP40; terminals IP00 in accordance with DIN 40050.

Weight: 0.15 kg (48vw...); 0.2 kg (72vw...); 0.25 kg (96vw...).

Fixing elements: with two screw-type fastening.

AMMETERS

Measuring range	Frame dimensions					
	48x24 mm		72x24 mm		96x24 mm	
	Type 48 vwA Cat. No. 2320-10-...		Type 72 vwA Cat. No. 2321-10-...		Type 96 vwA Cat. No. 2322-10-...	
	...	Voltage drop or consumpt.	...	Voltage drop or consumpt.	...	Voltage drop or consumpt.
1 mA	001	max. 1.2 V ↓	001	max. 1.2 V ↓	001	max. 1.2 V ↓
100 mA	011		011		011	
500 mA	015		015		015	
1 A	016	max. 0.3 VA ↓	016	max. 0.3 VA ↓	016	max. 0.3 VA ↓
1.5 A	017		017		017	
2.5 A	018		018		018	
4 A	019		019		019	
5 A	020		020		020	
* .../ 1 A	C01		C01		C01	
* .../ 5 A	C02		C02		C02	
** .../ 1 A	C03		C03		C03	
** .../ 5 A	C04		C04		C04	

* with current transformer

** with current transformer and 100% I_n overload scale.

Note: on request types different from tables are accepted

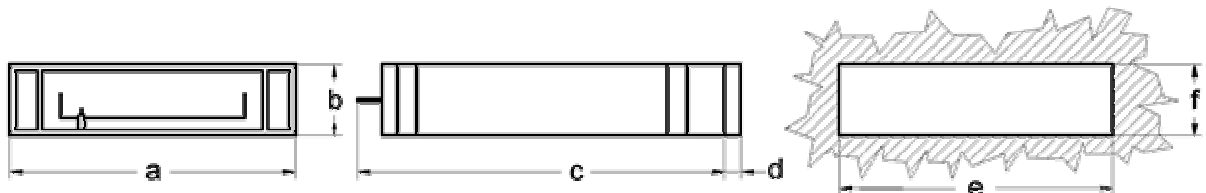


VOLTMETERS

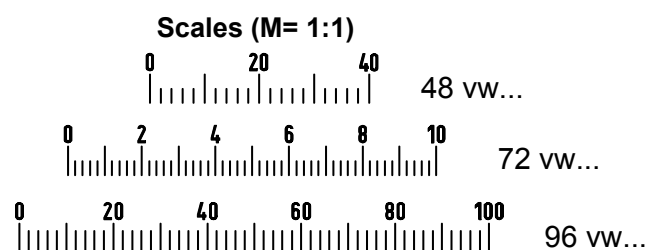
Measuring range	Frame dimensions					
	48x24 mm		72x24 mm		96x24 mm	
	Type 48 vwV Cat. No. 2320-10-...		Type 72 vwV Cat. No. 2321-10-...		Type 96 vwV Cat. No. 2322-10-...	
	...	Internal Resistance	...	Internal Resistance	...	Internal Resistance
6 V	101	1000 Ω/V	101	1000 Ω/V	101	1000 Ω/V
10 V	102	↓	102	↓	102	↓
15 V	103		103		103	
25 V	104		104		104	
40 V	105		105		105	
60 V	106		106		106	
100 V	107		107		107	
150 V	108		108		108	
250 V	109		109		109	
300 V	114		114		114	
400 V	110		110		110	
500 V	111		111		111	
600 V	112		112		112	
* ... / 100V	C05		C05		C05	
* ... / 110V	C06		C06		C06	

* for connection to voltage transformer.

Outline drawing



Type\Dim. [mm]	a	b	c	d	e	f
48 vwA 48 vwV	48	24	67.6	5.3	43.2 ^{+0.3}	22.2 ^{+0.3}
72 vwA 72 vwV	72	24	92	5.3	67 ^{+0.5}	22.2 ^{+0.3}
96 vwA 96 vwV	96	24	125	5.3	91.5 ^{+0.5}	22.5 ^{+0.3}



Note: on request types different from tables are accepted

Order specification:

- Moving-coil panel mounted ammeter with rectifier for AC.
- Frame size: 72x24 mm.
- Range: 1 mA.
- Scale: 0 ... 1 mA.

Ordering data:

- Moving-coil panel mounted ammeter with rectifier for AC.
- Type: **72 vwA**
- Cat. No. **2321-10-001**
- **position:** horizontal