



## MOVING-COIL PROFILE INSTRUMENTS



### 72spDA, 96spDA, 144spDA 72spDV, 96spDV, 144spDV

For measuring DC current or voltage

#### Technical data:

**Movement:** moving-coil  
pivot and spring-type bearing

**Instrument case:** steel plate

**Scale length:** 46mm (72sp); 62mm (96sp);  
103mm (144sp)

**Permanent overloading:** 1.2 -fold current  
res. voltage

**Class of accuracy:** 1.5



**Weight:** approx. 0.1kg (72sp); 0.35kg (96sp); 0.8kg (144sp)

**Fixing elements:** two spring-type fastening clips (DIN 43 835 "A") for 72sp and 96sp;  
and two screw-type fastening clips (DIN 43 835 "B") for 144sp

AMMETERS	Type 72 spDA		Type 96 spDA		Type 144 spDA	
Frame dimensions	72x36 mm		96x48 mm		144x72 mm	
Measuring range	Cat. No. 1051-12-...	Int. Res. ( $\Omega$ )	Cat. No. 1526-12-...	Int. Res. ( $\Omega$ )	Cat. No. 2304-12-...	Int. Res. ( $\Omega$ )
100 $\mu$ A	002	870	001	870	001	4000
250 $\mu$ A	004	450	005	450	005	1300
500 $\mu$ A			008	80	008	310
1 mA	007	30	011	30	011	110
5 mA	011	2.5	018	2.5	018	3.5
10 mA	013	2.2	021	2.2	003	6
20 mA	015	2	024	2	006	1.5
25 mA	016	2.4	025	2.4	007	2.4
100 mA	019	0.6	031	0.6	013	0.6
0.5 A			038	0.12	001	0.12
1 A	024	0.06	041	0.06	004	0.06
1.5 A	025	0.04	043	0.04	006	0.04
2.5 A	026	0.024	045	0.024	008	0.024
4 A	027	0.015	047	0.015	010	0.015
5 A			048	0.012	011	0.012
6 A	028	0.01	049	0.01	012	0.01
10 A	029	0.006	052	0.006	052	0.006
4...20 mA	501	2	501	2	501	2
* ....A/50mV	1051-12-C01	10	1526-12-C01	10	1526-12-C01	10
* ....A/60mV	1051-12-C02	12	1526-12-C02	12	1526-12-C02	12
* ....A/100mV	1051-12-C03	20	1526-12-C03	20	1526-12-C03	20
* ....A/150mV	1051-12-C04	30	1526-12-C04	30	1526-12-C04	30
* ....A/300mV	1051-12-C05	60	1526-12-C05	60	1526-12-C05	60

\* For connection to separate shunt. The calibration of the instruments 0.035  $\Omega$   
wire ( $=2 \times 1 \text{ m } \varnothing 1 \text{ mm}^2$ ) resistance is taken into consideration.

The tolerance of the internal resistance is generally  $\pm 20\%$

**Note:** on request types different from tables are accepted

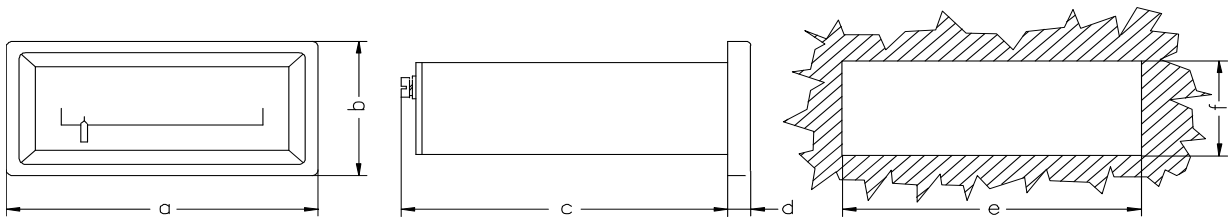


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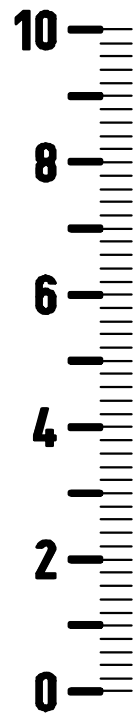


VOLTMETERS	Type 72 spDV		Type 96 spDV		Type 144 spDV	
	72x36 mm		96x48 mm		144x72 mm	
Measuring range	Cat. No. 1051-12-...	Intern. Resist.	Cat. No. 1526-12-...	Intern. Resist.	Cat. No. 2304-12-...	Intern. Resist.
1 V	037	1000 Ω/V ↓	051	1000 Ω/V	001	1000 Ω/V
1.5 V	038		053		003	
2 V	---		054		004	
2.5 V	039		055		005	
4 V	040		057		007	
5 V	---		058		008	
6 V	041		059		009	
10 V	042		061		011	
15 V	043		063		013	
20 V	---		064		014	
25 V	044		065		015	
30 V	---		066		016	
40 V	045		067		017	
50 V	---		068		018	
60 V	046		069		019	
80 V	---		070		020	
100 V	047		071		021	
150 V	048		073		023	
200 V	---		074		024	
250 V	049		075		025	
300 V	---		076		026	
400 V	050		077		027	
500 V	---		078		028	
600 V	051		079		029	

Note: on request types different from tables are accepted



Type\Dim. [mm]	a	b	c	d	e	f
72 spDA 72 spDV	72	36	105	5.5	68 <sup>+0.7</sup>	33 <sup>+0.7</sup>
96 spDA 96 spDV	96	48	125	7	92 <sup>+0.7</sup>	44 <sup>+0.7</sup>
144 spDA 144 spDV	144	72	170	8	138 <sup>+0.7</sup>	68 <sup>+0.7</sup>



Scales (M=1:1)

## Order specification:

- Moving-coil voltmeter
- Frame size: 72x36 mm
- Range: 10 V
- Scale: 0 ... 10 V

## Ordering data:

- Moving-coil voltmeter
- Type: 72 spDV
- Cat. No. 1051-12-042
- position: horizontal

