



## EC48 .../110V

EC48 .../110V, Voltmeter

Code: M10410.

- > Scale: 90°, P1
- > Accuracy: 1,5
- > Measurement Range (V): .../110
- > Modules: 48x48

### Description

- No need for auxiliary power supply, only the CEC 96 type
- DIN boxes with dimensions: 48, 72, 96 and 144
- Measurement in true root mean square or V ... 600 V ac
- Exchangeable scales for EC48, EC72, EC96, EM 45
- The alarm system can be fully configured for CEC 96

&nb

### Application

In alternating current applications, to control the state of the voltage quickly and visually.



# EC48 .../110V

Moving Iron Voltmeters

Code: M10410.

## Specifications

### Mechanical characteristics

|                                  |                     |
|----------------------------------|---------------------|
| Size (mm) width x height x depth | 48 x 48 x 66.2 (mm) |
| Fastening                        | Panel               |
| Weight (kg)                      | 0,085               |

### Environmental characteristics

|                       |                                         |
|-----------------------|-----------------------------------------|
| Protection class      | Panel: IP 52 (Front), IP 20 (Terminals) |
| Storage temperature   | -25...+40 °C                            |
| Operating temperature | +10 ... +30 °C                          |

### Standards

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| Certifications                        | CE                                                         |
| Electrical safety, Maximum height (m) | 2000                                                       |
| Standards                             | BS 89, UNE-EN 60051, IEC 144, DIN 43780, IEC 51, UNE 21318 |

### Voltage measurement circuit

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Consumption                           | 1 ... 4 VA                                      |
| Sampling frequency                    | 20 ... 100 Hz                                   |
| Maximum permanent measurement voltage | 1,5 Vn permanent rated voltage / 2 Vn during 5s |

### Electrical characteristics

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Insulation voltage, circuit | 2 kV, 50 Hz, 1 min entre mecanismo y caja |
|-----------------------------|-------------------------------------------|

### Measurement accuracy

|          |          |
|----------|----------|
| Accuracy | 1,5 % FE |
|----------|----------|

EC-V  
Moving Iron Voltmeters (ac)

| CODE    | TYPE          | Scale   | Accuracy | Modules |
|---------|---------------|---------|----------|---------|
| M10415. | EC48 250V     | 90°, P1 | 1,5      | 48x48   |
| M10416. | EC48 300V     | 90°, P1 | 1,5      | 48x48   |
| M10417. | EC48 400V     | 90°, P1 | 1,5      | 48x48   |
| M10418. | EC48 500V     | 90°, P1 | 1,5      | 48x48   |
| M10419. | EC48 600V     | 90°, P1 | 1,5      | 48x48   |
| M10410. | EC48 .../110V | 90°, P1 | 1,5      | 48x48   |
| M10425. | EC72 250V     | 90°, P1 | 1,5      | 72x72   |
| M10426. | EC72 300V     | 90°, P1 | 1,5      | 72x72   |



# EC48 .../110V

Moving Iron Voltmeters

Code: M10410.

| CODE    | TYPE           | Scale   | Accuracy | Modules |
|---------|----------------|---------|----------|---------|
| M10427. | EC72 400V      | 90°, P1 | 1,5      | 72x72   |
| M10428. | EC72 500V      | 90°, P1 | 1,5      | 72x72   |
| M10429. | EC72 600V      | 90°, P1 | 1,5      | 72x72   |
| M10420. | EC72 .../110V  | 90°, P1 | 1,5      | 72x72   |
| M10449. | EC144 600V     | 90°, P1 | 1,5      | 72x72   |
| M10435. | EC96 250V      | 90°, P1 | 1,5      | 96x96   |
| M10436. | EC96 300V      | 90°, P1 | 1,5      | 96x96   |
| M10437. | EC96 400V      | 90°, P1 | 1,5      | 96x96   |
| M10438. | EC96 500V      | 90°, P1 | 1,5      | 96x96   |
| M10439. | EC96 600V      | 90°, P1 | 1,5      | 96x96   |
| M10430. | EC96 .../110V  | 90°, P1 | 1,5      | 96x96   |
| M10445. | EC144 250V     | 90°, P1 | 1,5      | 144x144 |
| M10446. | EC144 300V     | 90°, P1 | 1,5      | 144x144 |
| M10447. | EC144 400V     | 90°, P1 | 1,5      | 144x144 |
| M10448. | EC144 500V     | 90°, P1 | 1,5      | 144x144 |
| M10440. | EC144 .../110V | 90°, P1 | 1,5      | 144x144 |

Exchangeable scales, Voltmeters 90°

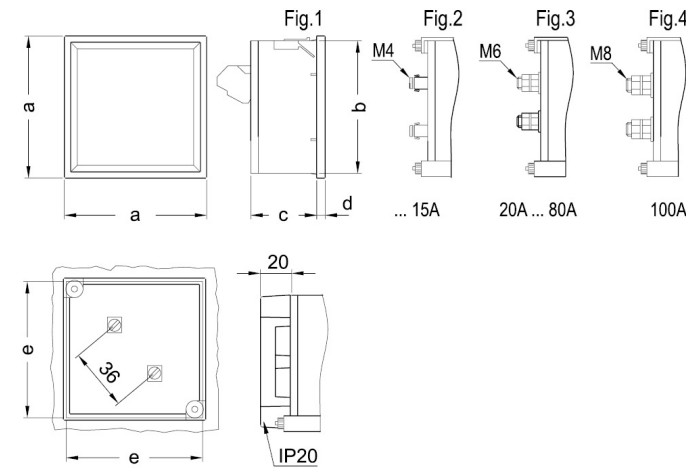


EC48 .../110V

Moving Iron Voltmeters

Code: M10410.

Dimensions



| Type | Fig. EC | Fig. BC | a   | b    | c    | d   | e   |
|------|---------|---------|-----|------|------|-----|-----|
| 48   | 1-3     | 1-3     | 48  | 44,7 | 61   | 5,2 | 45  |
| 72   | 1-3-4   | 2-3-4   | 72  | 67,2 | 43,5 | 5,7 | 68  |
| 96   | 1-3-4   | 2-3-4   | 96  | 91   | 43,5 | 5,7 | 92  |
| 144  | 2-3-4   | 2-3-4   | 144 | 137  | 64,5 | 7,3 | 138 |

Connections

