



- Designed for capacitance meters calibration
- Capacitance range 100 pF – 100.00 μF
- Capacitance accuracy 0.25%
- Operating voltage 50 V
- User defined curves (conversion tables)
- RS232 (optionally USB, IEEE488, LAN)

Model M525 is a precise capacitance decade box with range from 100 pF to 100 μF. Basic accuracy is 0.25 %. Best resolution on the lowest range is 1 pF. Capacitors are switched using special relays designed for high currents. Comfortable user interface offers direct setting of capacity value, OPEN correction, grounding L terminal, user conversion curves setting and others. Decade can be remotely controlled by a computer using standard RS232 interface. LAN, USB and GPIB interfaces are optional. M525 is equipped with an internal calibration menu that allows correcting any deviation of capacity value without opening the instrument. Decade is designed for checking multimeters and simple RLC meter. It is suitable also for repair, adjustment and calibration of measuring instruments.

### M525 Specification

<b>Range / Resolution</b>	<b>Accuracy 1 kHz [ % ]</b>	<b>Loss coefficient 1kHz [ - ]</b>	<b>Accuracy 40 Hz-1 kHz [ % ]</b>	<b>Loss coefficient 10 Hz- 1 kHz [ - ]</b>	<b>Temperature coefficient [ ppm / °C ]</b>
<b>0.100 nF – 10.000 nF</b>	<b>0.25 ± 3pF</b>	<b>&lt; 0.05</b>	<b>0.5 ± 3pF</b>	<b>&lt; 0.05</b>	<b>&lt; 270</b>
<b>10.001 nF – 100.00 nF</b>	<b>0.25</b>	<b>&lt; 0.005</b>	<b>0.5</b>	<b>&lt; 0.005</b>	<b>&lt; 270</b>
<b>100.01 nF – 1.0000 uF</b>	<b>0.25</b>	<b>&lt; 0.005</b>	<b>0.5</b>	<b>&lt; 0.005</b>	<b>&lt; 270</b>
<b>1.0001 uF – 10.000 uF</b>	<b>0.25</b>	<b>&lt; 0.05</b>	<b>0.5</b>	<b>&lt; 0.05</b>	<b>&lt; 270</b>
<b>10.001 uF – 100.00 uF</b>	<b>0.25*</b>	<b>&lt; 0.2 *</b>	<b>0.5</b>	<b>&lt; 0.2 **</b>	<b>&lt; 270</b>

Note:

\* For frequency 100 Hz

\*\* For frequency range 40 -100 Hz

Capacity value is defined in the output terminals level.

Correction Open OFF – capacity value is defined relative to the OPEN value.

Correction Open ON – capacity value is defined absolutely.

## General Specification

<b>Maximal voltage:</b>	50 V pk
<b>Temperature coefficient:</b>	< 270 ppm/ °C
<b>Reaction time:</b>	< 200 ms
<b>Reaction time TIMING :</b>	min 500 ms
<b>Terminals:</b>	gold plated terminals 4mm
<b>Remote control:</b>	RS232 interface (optionally USB, LAN, IEEE488)
<b>Power supply:</b>	85-260 Vac, 45-65 Hz
<b>Reference temperatures:</b>	+23 °C ± 2 °C
<b>Working temperatures:</b>	+5 °C ... +40 °C
<b>Storage temperatures:</b>	-10 °C ... +50 °C
<b>Dimensions:</b>	W 390 mm, H 128 mm, D 310 mm
<b>Hmotnost:</b>	4 kg

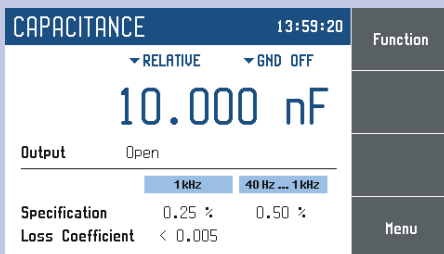
### Content of delivery

Programmable Decade Box M525  
 Cable RS 232  
 Application software  
 User's manual

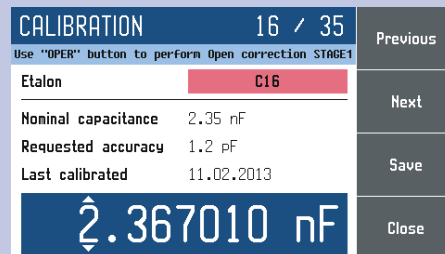
### Ordering information – options

<i>Bus</i>	M525-V1xxx - RS232 M525-V2xxx - RS232, USB, LAN, GPIB
<i>Housing</i>	M525-Vxx0x - table version M525-Vxx1x - module 19“, 3HE

### Capacitance



### Calibration



### Function timing

