

- ✓ Five Adjustable Decades
- ✓ RS 232 Data Port
- ✓ Range 100pF to 12  $\mu$ F
- ✓ Zero Capacity < 2pF
- ✓ High Stability
- ✓ Voltage 50VDC, 35V RMS
- ✓ High Accuracy of 0.25%
- ✓ Battery Operation



The capacitance decade OCM 520 is a precision Instrument of high stability and accuracy designed for parameter checking and calibration of capacitance measuring equipment. It can be used at laboratories, design centers, quality check points and research institutions as a high precision capacitance source. The main features are

accuracy, stability and maintenance free operation. Voltages up to 50V DC or 35V RMS can be applied to the selected capacitor. The capacitance value can be set with five decade switches at the front or via the serial data port RS232. The instrument is powered from internal rechargeable battery which permits 6 hours operation.

## SPECIFICATIONS

Range:	100 pF - 12.221 $\mu$ F
Operating voltage:	50 VDC / 35V RMS, Terminals H - L
Test voltage:	500Veff between H - L and the cabinet
Terminals:	Two wire connection + GUARD, 4mm gold plated
Settings:	Five decades revolving switches
Interface:	isolated RS232 for capacitance settings
Temperature Range:	23 °C $\pm$ 2 °C
Relative Humidity:	10 - 50 %
Supply:	Internal rechargeable battery, 6h operation
Cabinet:	Steel heavy duty cabinet
Dimensions:	325 x 111 x 136 mm (W x H x D)
Weight:	4.5 kg
Isolation H, L - GND:	> 10 G $\Omega$ (at 500Vdc), floating L terminal

DECADE	ACCURACY (%)	NOMINAL VALUE *	LOSS COEFF. *	TEMP. COEFF. ( $\pm$ ppm / °C)
100 pF – 1100 pF		2.5 $\pm$ 1pF	< 0.005	< 250
1 nF – 11 nF		0.25	< 0.005	< 250
10 nF - 110 nF		0.25	< 0.005	< 250
100 nF – 1100 nF		0.25	< 0.005	< 250
1 $\mu$ F - 11 $\mu$ F		0.25	< 0.001	< 250

\* The stated accuracy relates to the set value at a frequency of 1 kHz.

Co: Capacity at zero setting: < 2 pF floating outputs  
< 4pF grounded outputs