

KB UMP 9709

Universal material testing panel

(Tensile / Compression)

- **Direct and digital display of all hardness values**
- **Display of tolerances**
- **50 free programmable test definitions**
- **Text input for each testing program for better identification**

The universal material testing panel **KB UMP9709** was especially designed as control unit for Tensile / Compression and spring testing machines. Applicable for electric motor operated and hydraulically operated machines.

The **UMP9709** can be used universally as computer interface for the KB MatWin software or for stand alone operation, due to the digital displacement, force and tensile control and data processing.

The flexibility within the hard and software makes it possible to use the **KB UMP9709** for the modernization (digitalization) of older testing machines no matter which brand it is. So it is an easy way to update older well-operating testing machines.



Highest ease of use due to the large LCD display.

The computer based electronic offers a lot of advantages:

- User-friendly and easy tensile and compression testing without PC
- Modular construction to connect a lot of sensors for
 - Force
 - Displacement
 - Tensile
 - Connection of complex and automatic extensometers
- Easy on-site installation of updates
- Protocols in DIN A4 format
- Help-functions routines (advice for use)
- Info-function routines (advice for testing characteristics)
- Controls for keyboard, monitor, hard drive etc. (optional)
- network connection (Ethernet Option), RS232, standard printer connection

Technical data:

- 486 CPU 100 MHz, 8 MB RAM, at least 1,5 MB program memory.
- Calibration routine for force-displacement-expansion.
- Connection of analog sensors with
 - inductive
 - strain gauge
 - +/- 10 V output.
- Connection of incremental sensors:
 - TTL – gauge
 - RS485 –gauge
 - current or voltage oriented sine output
- Digital scale of force, displacement and extension
- Max. resolution for analog force and extension +/- 400.000 digit.
- Adjustment for breaking identification
- Automatical. return, initial load speed, testing speed.
- F max - und S max – cutoff of critical value freely configurable.
- Tensile, compression testing with F max - und S max - results.
- Bending testing DIN 310.
- Other testing according to DIN (optional)