**General Information:**

- Electronic testing device with digital display for tensile and compressive force measurements
- Easy to use and space-saving, made for the use in production and test laboratories, suitable for the tensile force measurement of ready-made supply cables with flat plugs, end sleeves and other pressed, crimped soldered, welded glued or comparably connected parts
- Compressive force measurement, for example insertion and extraction tests.
- Indication Range: 0-500N, measurement resolution of 0.5N.
- High measurement accuracy and reproducibility of measurement
- Readout and operation via resistant touchscreen with dot matrix-LCD-Display.
- Casing protected against dust.
- High measurement frequency.
- Automatic zero point alignment.
- Tare-compensation.
- Overload indicator.
- 2 operating modes:
  - Peak-mode, displaying the highest measured force value of the entire measurement procedure
  - Tracking-mode, displaying the current force value
- Setup menu for adjustment.
- Serial interface for measured value output.
- Loading system with parallel guided load slide; actuation via laterally mounted hand-lever, adjustable in inclination; load slide with guide rail and possible length adjustment.
- Durable, maintenance-free metal construction.
- Universal quick-change tool holders

**Optional Accessories:**

- Tabletop printer – Software mavDataEX, mavSTAT light
- Data transmission cable for printer connection
- Data transmission cable for computer connection
- Other supplies from the catalogue upon request

**Technical Data CT 50:**

- **Model Designation:** CT 50
- **Indication range:** 0-500 N.
- **Measurement resolution:** 0.5 N
- **Relative deviation in measuring area:** $\leq 0.5 \%$ of value ± 1 digit
- **Casing:**
  - Dimensions:
    - Baseplate: W×D×H ca. 130×400×125 mm;
    - Controls: W×D×H ca. 125×105×70 mm;
    - Hand lever: 240 mm, adjustable inclination
  - Weight: around 8 kg.
  - Material: Anodized aluminum
  - Color: Silver-grey
- **Measuring System:**
  - Supply Voltage: 12 V DC via an external power supply.
- **Force Transducer:**
  - Strain gauge - load cells with integrated 12 bit AD-converter and RS485 bus. Overload protection.
- **Evaluation:**
  - Operating modes: Tracking-mode and peak-mode;
  - Measurement frequency: 10000 Hz; Zero point correction; Tare-compensation;
  - Overload indicator;
  - Setup menu for instrument adjustment;
  - Individual output of measured values via serial interface.
- **Display:**
  - Backlight LCD-dot matrix-display, 128x64p, 56.3x38.4 mm.
  - LCD update rate: 5 Hz.
- **Input/Handling**
  - All inputs and actuations made via infrared-touchscreen.
- **Interface:**
  - **RS232C** 1200 baud, 8 data bits, 1 stop bit, Parity: none; Connector: RJ45 socket (8-pin).