



### Application

The new **MEGA-CHECK** generation sets a new standard in coating thickness measurement. The devices use the most advanced electronic technique.

For the first time the measuring probes are fitted up with an own microcontroller which converts the analog probe signals and send them digitized to the control unit. This new technique makes them nearly trouble-free and ensure high precision and reproduceable measurements.

The probe cable is connectable from both sides (control unit and probe) and therefore easy to service. In case of a broken cable the device must not be sent back to the manufacturer, the operator can exchange the cable by himself.

The new **MEGA-CHECK** devices have a big, clearly arranged graphic display with backlit.

A wide selection of ferrous, non-ferrous and dual probes also of small size can be connected. Worldwide the first dual probe with swinging probe head.

Menu selection in several languages.

Power supply either by 3 x 1,5 V Mignon batteries or 3 x 1.2 V rechargeable batteries.

The **MEGA-CHECK** devices are of high quality and manufactured exclusively in **Germany**.

The MEGA-CHECK **Master** includes the new SCAN-function especially designed to measure the coating on rough or blasted surfaces. In a few seconds the real coating thickness can be determined.

The DUPLEX function enables the operator to find out the thickness of insulating coatings on zinc plated steel.

With the new analog diagram on the display the run of measurements in a preselected range limit can be observed when taking measurements continuously.

The MEGA-CHECK **Profi** and **Master** includes the facility to store three reference calibrations.

## Features and technical datas



### MEGA-CHECK *Basic*

The **standard device** easy to operate without memory and interface for measurements on-site.

### MEGA-CHECK *Profi*

The **comfortable device** with built-in memory and USB interface for those users who prefer easy operation but need to evaluate and document the measured values.

### MEGA-CHECK *Master*

The TOP device with new functions and conveniences especially designed for professional users.

- Memory (10.000 readings) max. 100 batches
- DUPLEX function (coating on zinc plated steel)
- USB Radio Interface
- SCAN function to measure on rough surfaces
- Analog diagram with range selection limit when measuring continuously- Calibrations can be stored for different objects

| Reference  | LIS-MEGACHECKBA  | LIS-MEGACHECKMA  | LIS-MEGACHECKPR  |
|--|------------------|------------------|------------------|
| Function   | <i>Basic</i>     | <i>Profi</i>     | <i>Master</i>    |
| Measurement of paint, varnish, plastics and galvanizing on iron and steel  | X                | X                | X                |
| Measurement of insulating coatings (paint, varnish, plastics, anodizing) on non-ferrous metals   | X                | X                | X                |
| Measuring Range:   | s. probe table   | s. probe table   | s. probe table   |
| Resolution:<br>1 - 100 $\mu\text{m}$ : 0.1 $\mu\text{m}$<br>> 100 $\mu\text{m}$ : 1 $\mu\text{m}$<br>> 2000 $\mu\text{m}$ : 0.01 mm  | X                | X                | X                |
| Accuracy:<br>below 100 $\mu\text{m}$ : $\pm 1 \mu\text{m}$<br>100 - 1000 $\mu\text{m}$ : $\pm 1 \%$<br>1000 - 2000 $\mu\text{m}$ : $\pm 3 \%$<br>above 2000 $\mu\text{m}$ : $\pm 5 \%$ | X                | X                | X                |
| Available Probes:  | s. probe table   | s. probe table   | s. probe table   |
| Power Supply:<br>3 x 1.5V AA Mignon,<br>a. W. 3 x 1.2V AA Akku rechargeable  | X                | X                | X                |
| One / Two-Point calibration:   | X                | X                | X                |
| Automatic Switch Off:  | X                | X                | X                |
| Conversion $\mu\text{m}$ – mils:   | X                | X                | X                |
| Data Logger:   | -                | 10.000 readings  | 10.000 readings  |
| Batches:   | -                | 1                | max. 100         |
| Calibration memory:  | -                | 3                | 3                |
| Multilingual Menu  | X                | X                | X                |
| Statistics (MAX. MIN. MEAN. NO. STD.DEV.)  | -                | X                | X                |
| Display of stored readings and statistics  | -                | X                | X                |
| SCAN – Function to measure on rough surfaces:  | -                | -                | X                |
| Analog diagram with continuous measurement:  | -                | -                | X                |
| Duplex – Value indication:   | -                | -                | X                |
| Graphic – Display with backlit:  | X                | X                | X                |
| Radio – USB Interface:   | -                | X                | X                |
| Dimensions:  | 198 x 92 x 35 mm | 198 x 92 x 35 mm | 198 x 92 x 35 mm |
| Weight incl. Batteries:  | 265 g            | 265 g            | 265 g            |

Standards: DIN, ISO, ASTM, BS

The devices are supplied with a calibration set, operation manual in a well designed plastic bag.

## Accesorios posibles

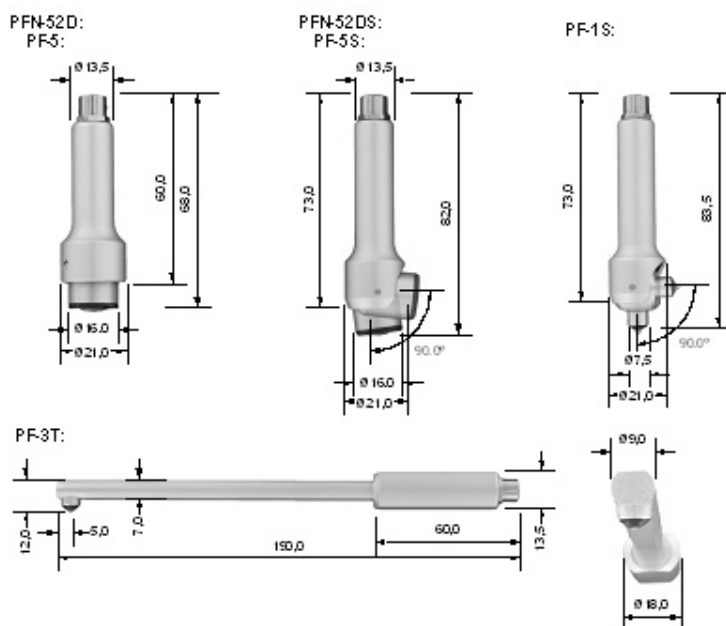
**Thermo Printer MEGA-PRINT**  
incl. Charger and connection cable



## Software

Data input software TRANSFER  
Data input software TRANSFER-EXCEL  
Graphic statistic software STAT-6

## MEGA-CHECK - Basic - Profi – Master - Measuring Probes:



## Technical Datas

| Type     | Measuring Technique              | Description  | Range                      | Smallest Area | Smallest curvature radius |                    |
|----------|----------------------------------|--|----------------------------|---------------|---------------------------|--------------------|
|          |                                  |  |                            |               | convex                    | concave            |
| PF-5     | magnetic-induction               | Standard-Probe springloaded guide (ferrous)                            | 0 – 5000 µm                | Ø 4 mm        | 4 mm                      | 38 mm              |
| PF-5S    | magnetic-induction               | Standard Swinging Probe springloaded guide (ferrous)                   | 0 – 5000 µm                | Ø 4 mm        | 4 mm                      | 38 mm              |
| PFN-52D  | magnetic-induction+ eddy current | Dual Function Probe springloaded guide (ferrous+non ferrous)           | F 0–5000 µm<br>N 0-2500 µm | Ø 6 mm        | F 4 mm<br>N 6 mm          | F 38 mm<br>N 38 mm |
| PFN-52DS | magnetic-induction+ eddy current | Dual Function Swinging Probe, springloaded guide (ferrous+non ferrous) | F 0–5000 µm<br>N 0-2500 µm | Ø 6 mm        | F 4 mm<br>N 6 mm          | F 38 mm<br>N 38 mm |
| PF-1S    | magnetic-induction               | Special Swinging Probe for small objects, springloaded guide (ferrous) | 0 – 1000 µm                | Ø 2 mm        | 1 mm                      | 6 mm               |
| PF – 3T  | magnetic-induction               | Special-Probe to measure inside of pipes + slots (ferrous)             | 0 – 3000 µm                | Ø 3 mm        | 2 mm                      | 8 mm               |