**Technische Daten / Technisches Merkblatt**  
**RMG 4015 (Best.-Nr. 4015.002)**  
**ab Seriennr. ................. Software-Version ..........**

### Display
- Display method: 8 characters LCD DOT matrix display
- Visible area: approx. 60 x 15 mm²
- Character resolution: 5 x 7 pixels

### Acquisition of measuring data
- Measuring rate (continuous mode): approx. 1 reading per second
- Measuring range: 0 - 99.9 mm
- Measuring resolution: 0.1 mm

### Measurement uncertainty
- On control block 4720.003 after two point calibration:
  - 0 - 10 mm: ±1 % - ±3 %
- After zero point material correction (w/o use of a reference crack) on ferro-magnetic material with material properties similar to CK45:
  - 0 - 10 mm: ±1 % - ±23 %
  - 10 - 100 mm: ±1 % - ±25 %
- After zero point material correction (w/o use of a reference crack) on austenite material with material properties similar to material no. 1.4301:
  - 0 - 100 mm: ±1 % - ±25 %
- After two point material correction (w/ use of a reference crack) on ferro-magnetic material:
  - 0 - 10 mm: ±1 % - ±13 %
  - 10 - 100 mm: ±1 % - ±15 %
- After two point material correction (w/ use of a reference crack) on austenite material:
  - 0 - 10 mm: ±1 % - ±20 %
  - 10 - 100 mm: ±1 % - ±25 %

### Measurement uncertainty when determining the inclined position of crack
- (angle α, only with ferritic material): ±10 % ± 5° at α > 30°

### INPUTS and OUTPUTS
- Serial PC/printer interface: 4 pin LEMO1 connector for datas cables 1657.307 (PC) and 1657.306 (printer)
- Data format: 4800 bauds, 8 data bits, 1 stop bit, no parity
- Probe: 7 pin LEMO2 socket to connect all RMG probes
- Charger socket: 1.3 mm low voltage connector for charger 2806.001

### MISCELLANEOUS
- Measure system: selectable mm and inch
- Date and time: Real time clock included

### MEMORY
- Readings: up to 3850 readings
- Number of batches: max. 300

### VOLTAGE SUPPLY
- Rechargeable battery mode operating time (with max. current consumption):
  - 2 ea. NiMH rechargeable batteries (size AA):
    - approx. 4 h (new batteries)
- Battery operation:
  - 2 ea. alkali manganese primary cells (size AA):
    - up to 8 hrs
- Indication of battery capacity:
  - indication "LOW BAT" is shown on the display
### PERMISSIBLE AMBIENT CONDITIONS
- **Operating temperature**: 0 °C to +45 °C
- **Storage temperature**: -20 °C to +60 °C w/ removed batteries
- **Storage temperature**: 0 °C to +45 °C w/ inserted batteries
- **Dust and humidity**: protection class IP 40

### OUTER APPEARANCE
- **Dimension (h x w x d)**: 83 x 151 x 35 mm³
- **Weight**: 225 g w/o batteries
- **Case Material**: ABS, black

### Probes
- **Measuring method**: Potential probe, 2 current poles, 2 voltage poles
- **Measuring tips**: spring-loaded glided pins, separately exchangeable acc. to wear
- **Pin types**: Needle contact pins: for the penetration of very thin non-conducting surface layers

### Integrated electronics
- **GG20**

### Arrangement of the measuring tips
- **Square**: Current tips in parallel to the voltage tips
greater resolution than linear pin arrangement
especially suitable for austenite material
determination of crack angles not possible

- **Linear**: Current tips outward, voltage tips inward
squared arrangement of pins
determination of crack angles possible

### Probe types
- **RMSQ 0° art. no. 4418.001**: straight probe
- **RMSL 0° art. no. 4416.001**: straight probe
- **RMSL 90° art. no. 4417.001**: angled probe
- **RMSL-S0° art. no. 4421.001**: straight probe
- **RMSL-S90° art. no. 4420.001**: angled probe
  for determination of inclined cracks

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