

CONTROL - AND EVALUATION SOFTWARE WinCoMeT

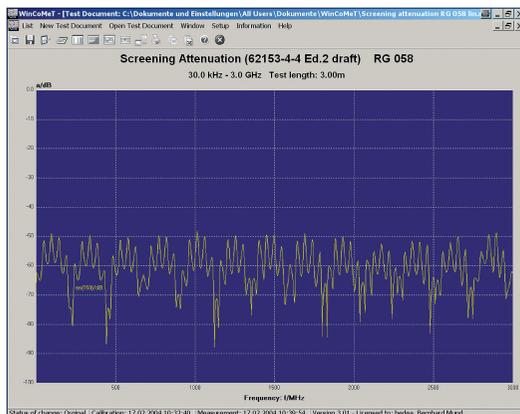
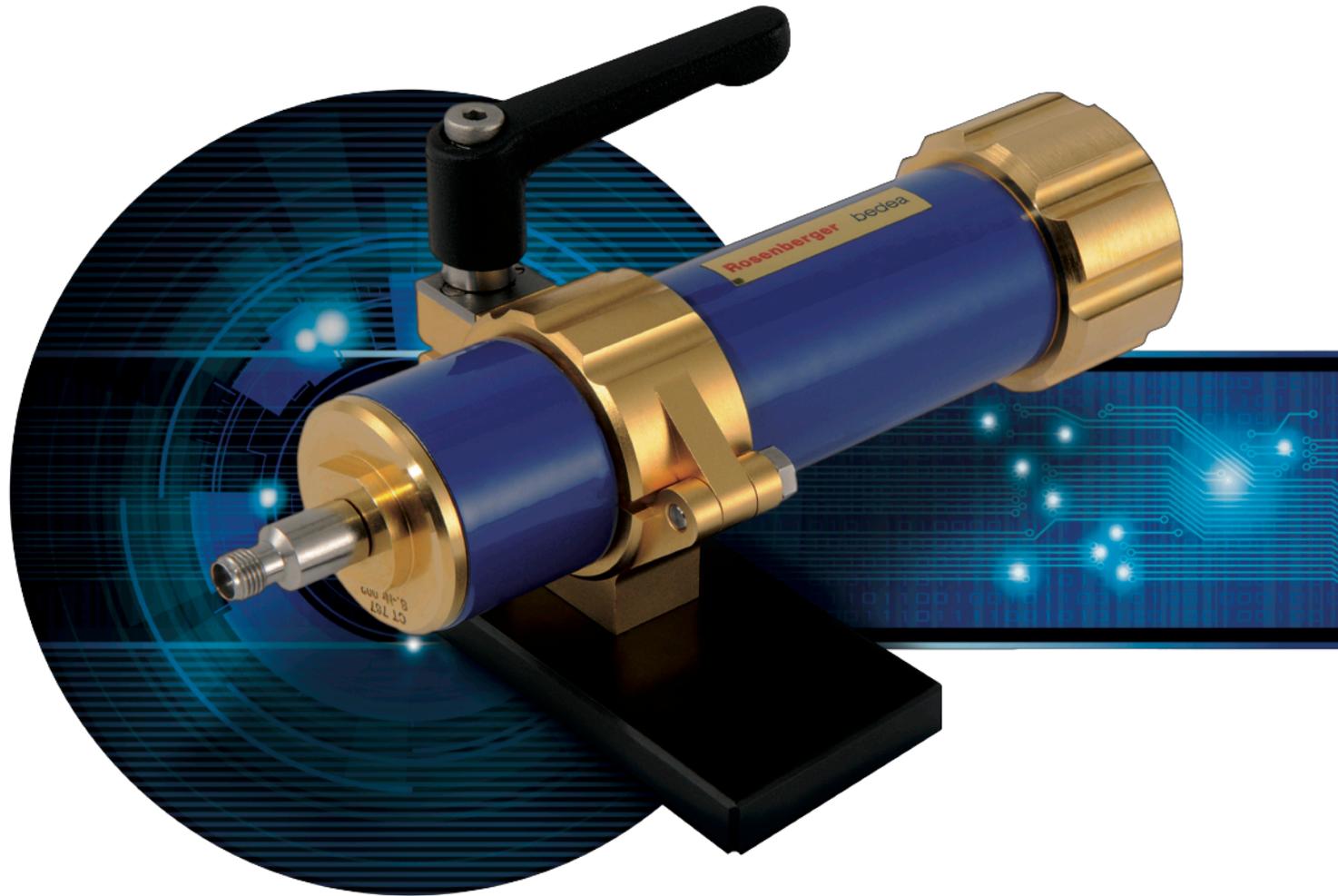
★ *Supported test Procedures as part of the CoMeT-System*

Measuring, calculation and representation of:

- x Transfer impedance
- x Screening attenuation
- x Coupling attenuation
- x Coupling transfer function

Additionally the general test procedures on communication cables optionally are supported:

- x Transmission
- x Attenuation
- x Attenuation (open/short procedure)
- x Return loss including time domain and gating
- x Characteristic wave impedance (open/short procedure)
- x Phase velocity, electrical length



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★ *Guidant*

EMC Performance Test Solution

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THE MEASURING SYSTEM CoMeT

★ *In the context of increasing of any kind of electromagnetic compatibility (EMC) of electrical and electronic systems is of growing importance.*

The CoMeT system measures in accordance to the proven and international standardized triaxial test method. The test method is not sensitive to external electromagnetic interference and fast and well reproducible. The measuring range is from DC to 12 (18) GHz. There is no emission of electromagnetic interference. Transfer impedance and Screening attenuation of communication cables and cable assemblies can be measured with one test set-up. By the Triaxial cell, special attention is paid to the shielding effectiveness of HV-cables for electric vehicles.

★ *With the different types CoMeT 40, CoMeT 90, CoMeT K and the different sizes of Triaxial cells, a family of products for the measurement of EMC performance of almost all components is available.*

STANDARDIZED TEST PROCEDURE TO MEASURE TRANSFER IMPEDANCE, SCREENING ATTENUATION AND COUPLING ATTENUATION ACCORDING TO:

- x IEC 621534-1, IEC 621534-3, IEC 621534-4, IEC 621534-7, IEC 621534-9, IEC 621534-10, IEC 621534-15, IEC 621534-16, EN 50289-1-6
- x Frequency range: DC to 18GHz
- x Modular construction, Tube in tube, Triaxial cell
- x Stretching device
- x Quick test set-up, adapter and other accessories
- x Software WinCoMeT to control Network Analyzer

1. CoMeT-40: Standard set-up, modular

- x Frequency range up to 12 GHz
- x Cable screen diameter 2.3 mm - 9.8 mm
- x Extension setup to 15 mm
- x Tube length 0.5 and 3x1.0 m
- x Connection tubes with quick action mechanism

2. CoMeT-90:

- x Frequency range up to 1 GHz
- x Cable screen diameter 6 mm - 22 mm
- x Extension setup to 42 mm

3. CoMeT-18:

Microwave test tube up to 18 GHz

- x Tube length 0.5 and 1.0 meter
- x Cable screen diameter 1.7 mm - 3.5 mm
- x Enhanced Microwave design

4. CoMeT-K: Screening effectiveness of Feed-throughs and EMC-Gaskets

- x Frequency range up to 4 GHz
- x Tailored Feed-through modules
- x IEC 62153-4-10

5. CoMeT-E: Test of Power Cables

- x Braided screens or shields
- x Frequency range up to 3 GHz

CoMeT -

Measure of:

- Transfer impedance
- Screening attenuation
- Coupling attenuation

Advantages:

- Insensitive against electromagnetic disturbances from outside
- No radiation of electromagnetic power
- High dynamic range > 125 dB
- High reproducibility

- Simple measuring set-up
- Fast preparing of the cable sample
- Only one measurement required
- Frequency range, DC to 18 GHz

★ *The test system CoMeT is a modular system for measuring EMC respectively Transfer impedance and Screening- or Coupling attenuation of screened cables, connectors or components with the triaxial test procedure according to IEC 62153-4-x.*

