Model 2XS
REVERBERATION CHAMBER

- **Applications in the Automotive, military and commercial market**
- **Supplied with 2 feed-throughs type N, media panel, Stirrer Control Program and stirrer with motor control and filtering**
- **Optional power and signal filter available**

Reverberation chambers (RCs) are modern EMC test environments in addition to the established methods like semi- or full anechoic rooms, open area test sites or (G)TEM cells. They can be used for emission and immunity testing. A reverberation chamber basically consists of a shielded room and a stirrer which changes ("stirs") the electromagnetic field inside the chamber. The chamber itself behaves like a multi mode resonator.

Features

- Rigid construction
- Inside complete flat surface (no connection elements as used for pan-type or sandwich construction) for optimum power and field performance
- Outside reinforced frame for optimum stability
- Plug-and-play chamber – fully tested and ready to use – no on-site assembling necessary
- In addition wheels for easy transportation – mobile design
- Stirrer control unit with remote interface and software
- Driver for test house software Compliance 5I/E
- Open source commands for easy implementation of the stirrer controller in any other software

Technical specifications

Chamber in accordance to:	IEC 61000-4-21:Ed.2, MIL461F, RTCA DO160F, Automotive (GM, Ford,…) and others
Dimension chamber (LxDxH in m):	1.5 x 0.8 x 1.0
Dimension over all (LxDxH in m):	1.6 x 0.9 x 1.1
Working volume size (LxDxH in m):	0.5 x 0.3 x 0.5
Recommended max. EUT size (LxDxH in m):	0.3 x 0.3 x 0.3
Material of the chamber walls:	aluminum
Frequency range:	0.8 to 18 GHz
Typical shielding effectiveness:	≥80 dB (0.8 to 18 GHz)
Door size, chamber (LxH in m):	0.65 x 0.48
Medial panel size (LxH in m):	0.5 x 0.5
Weight:	approx. 96 kg

Technical details tuner

- Mode stirrer type 2XS
- Remote controlled via RS232
- Motor installed within chamber (to ensure best shielding performance also on long-term perspective, no RF feed-through for stirrer axis required)
- Motor for stepwise and continuous rotation
- Motor with zero positioning switch
- Motor optimized for high field strengths

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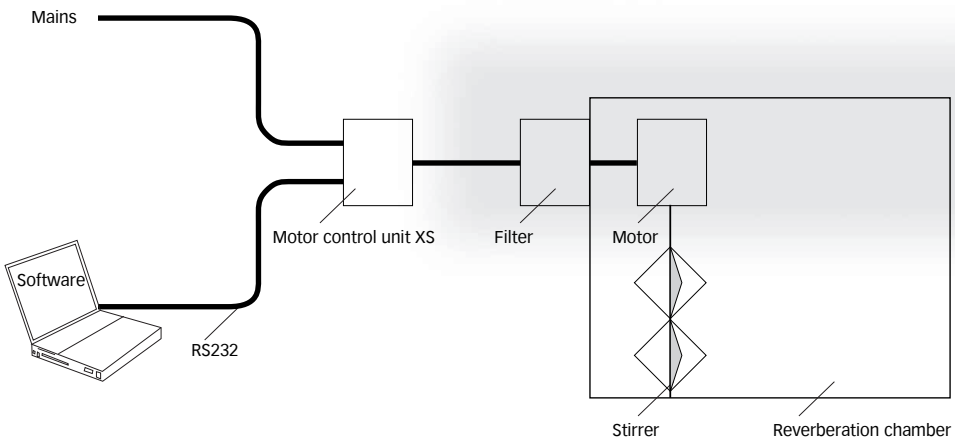
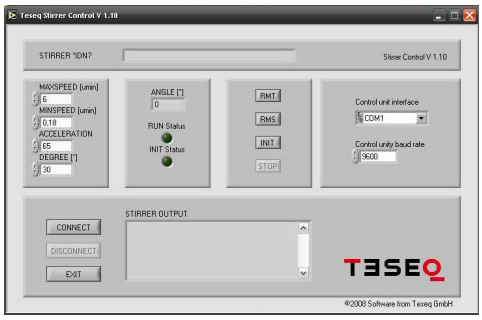
System overview



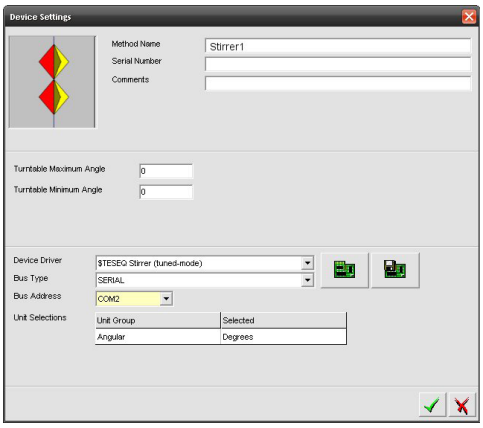
Media feed-through connectors and panel

- Standard connectors: 2x N female type connectors, 2x FSMA optical connectors, 1x FC optical connector (used for e.g. HI6105 field probes) and 1x ST optical connector (used for e.g. HI6105 field probes)
- Media panel (size 0.5 m x 0.5 m) for customer specific filters

Stirrer control program



Compliance 5 software: Stirrer settings



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Option EUT BOX-1, DC1 and 2x SIF RC, view from outside

Option EUT BOX-1, DC1 and 2x SIF RC, view from inside

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Technical specifications of the motor control unit XS

Supply:	110 to 230 V AC 50/60 Hz
Power switch:	hardware switch
Fuses:	2x T 2.5 A
Communication interface to the PC:	RS232
Connection:	Cable 3 pins
Length:	approx. 2 m
Connector motor control unit:	3 pins
Connector PC:	D-Sub 9 pins
Communication interface to the motor	
Connection:	Cable 8 pins
Length:	approx. 2.5 m
Connector motor control unit:	8 pins
Connector motor:	D-Sub 9 pins
Dimensions (L x W x H in mm):	220 x 105 x 95
Weight:	approx. 1.5 kg

Model No. and options

254753	RC 2XS RC Chamber with dimension 1.5 m x 0.8 m x 1.0 m, 2 x N feed-throughs for 18 GHz range, 4x optical feed-troughs, mode stirrer size X, remote controlled, incl. gear motor for step-wise and continuous rotation, positioning accuracy +/- 0.5°, smallest step 0.1°, motor installed inside chamber, specified up to 600 V/m, incl. EMC filter, cables, blank feed-through panel with useable area 0.5 m x 0.5 m, stirrer control unit with remote interface and driver for C5I software
251100	EUT BOX-1 EUT supply for single phase, 2x 16 A filter, 1 socket inside, line safety switch, earth leakage circuit breaker
251210	EUT BOX-4 EUT Box with DC power filter 4x 10 A, banana jacks 4 mm
251000	DC1 Option for EUT BOX-1: DC power filter 2x 10 A, banana jacks 4 mm
253415	SIF RC 25 lines signal filter, Sub-D, option for GTEM and RC

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