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Account of conformity and notes on operation for PHYWE construction sets and experimental set-ups

06550.00
to
06559.00

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"Technical recommendation for application of the EMC Law to electrical and electronic teaching equipment (teaching aids)" REG TP 322 TE 01.

Elementary components (Chapter 3.1.1) are individual passive or active electrical or electronic elements (e.g. a plugboard) and do not come under the EMC Law. They are not tested, and are neither given an EC declaration of conformity nor, as a rule, a **CE** mark.

In Chapter 3.2.2 (Systems) and Chapter 3.2.3 (Installations) the following is stipulated:
System set-ups (4.2.2) and set-ups from experimental construction sets must be in accordance with the directives in the EMC Law.
An exception to this is made, however, in the case of such **systems or construction sets** that, as a pure combination of components, only contain individual components that cannot be separately operated, as long as these are exclusively supplied to research, **teaching and training places** (institutes, schools, universities), in which it can be assumed that the experiments will be carried out under the supervision of **qualified (EMC skilled) staff** in appropriate technical rooms, and that all necessary measures (e.g. screening, short connecting cables, brief operation times) will be taken so that the proper functioning of other equipment that is operated outside of the technical room, or in the immediate electromagnetic vicinity, is not impaired.

Suitable measures are, for example:

- Shielding potential equalization
- Large distance from sensitive instruments
- Avoidance of upholstery that can lead to electrostatic charges (e.g. certain floor coverings)
- Filtering of line leads to emitting instruments and emission-sensitive instruments
- Exclusion of HF-generators (e.g. mobile phones) that do not belong to the experimental set-up
- Short connecting leads
- Brief operating times

Note

The cited experimental systems are only to be operated with **voltages that are not dangerous** to touch, i.e. voltages < 25 V AC or < 60 V DC!

This account of conformity is to be applied to the following experimental systems:

Student sets
Ident. no. 05134.10, .20, .66, .77, .88
Ident. no. 05130.10, .20, .88

Magnetic board sets - Electricity/Electronics
Ident. no. 05136.10, .20, .88
Ident. no. 05145.88

Demonstration plug-in sets - Electricity/Electronics
Ident. no. 13051.77, .88

TESS Physik Set Elektrik/Elektronik
Ident. no. 13281.88; 13282.88

TESS Physics Electric/Electrononics modules
Ident. no. 05600.88
Ident. no. 05601.88
Ident. no. 05602.88

Demo Physics electric/electronic, building block
Ident. no. 09400.44, .55, .66, .88
Ident. no. 09401.88

Motor model
Ident. no. 07850.10, .20, .30, .40

Electromotor generator set
Ident. no. 07880.00

Demonstration generator system
Ident. no. 06550.00 to 06559.00

Plug-in board, 4mm plugs
Ident. no. 06033.00

TESS Physics Set for Optics/Atomic physics
Ident-no. 13286.88

TESS Physics Set Renewable Energy EN1
Ident-no. 13287.88

TESS Physics Set Renewable Energy EN2
Ident-no. 13288.88