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InsTrain – Wall Box E-Mobility Wall-Mounted Charging Station

The Wiring Installation Training System for Practical and Project-Oriented Teaching of New Technologies



1st Edition



InsTrain – Wall Box

E-Mobility Wall-Mounted Charging Station

Vehicles with electric drive systems, as well as plug-in hybrids, increasingly need charging stations in both public and private domains. Project planning, installation and enhancement of such complex and innovative technology creates new tasks and problems for electricians.

The E-Mobility wall-mounted charging station – or wall box for short – is a wiring installation training system conforming to DIN EN 61439-7 and designed for training in the electrical and automotive engineering sectors. Compact, multi-functional and computer-assisted, the wall box is the ideal helper for training in electrical installation of charging stations and teaches the electricians of the future about all the key training topics in the areas of electrical and automotive engineering.

The wall box allows trainees to carry out experiments both with and without simulated fault conditions being present. A wide variety of fault combinations make it possible for you to implement varied and realistic project exercises. A built-in web interface makes it possible to access all the data – during the charging process as well as afterwards. Faulty operating states are archived in the controller's log. The educational InsTrain E-Mobility course perfectly complements the wall box, making it an outstanding training system for education and advanced training.



Training objectives

- Planning your own projects
- Understanding charging stations for electric vehicles
- Determining availability of electricity
- Understanding charging infrastructure systems and planning projects involving them
- Integrating charging infrastructure into wiring installations
- Checking and documenting electrical systems according to VDE standards
- Setting up communication between charging infrastructure and vehicle
- Data logging

Equipment options

The ILA (Interactive Lab Assistant) course supplements the training system and uses interactive experiments to guide trainees into the topic of testing protective measures for charging infrastructure systems. It provides an extensive experiment platform, questions with feedback and evaluation logic so that you can monitor your trainees' progress.

Basic set



SE2671-1P
Wall box



LM8561
Test box



LM8556
VDE tester

Supplementary package with building service entry point and garage



EGT 1
Building service entry point
(distribution box)



SE2671-1P
Wall box



LM8561
Test box



LM8556
VDE tester

Supplementary package with building service entry point and garage with electric car connected



EGT 1
Building service entry point
(distribution box)



SE2671-1P
Wall box



CO3221-6K
CarTrain



LM8556
VDE tester



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