

Item No.: SO4204-7E

UniTrain "LIN bus in automotive"

Includes:

- 1 Experiment card with LIN master and controls for LIN-bus-controlled window winders, door mirror, indicators and central locking
- 1 Experiment card with LIN slave and actuators window winder motors, and central locking, plus a sensor to detect the position of the window
- LIN-bus controlled door mirror
- CD-ROM with Labsoft browser, course software and one additional virtual instrument, "LIN monitor"

Course contents:

- Development of bus systems in motor vehicles
- Modern automotive bus systems
- Topology and components of a LIN-bus system in a motor vehicle
- Experimental determination of electrical properties of a LIN bus (voltage levels)
- Introduction to the principle of addressing on a LIN bus
- Master and slave principle
- Investigation of data fields by measurement
- Structure of a packet frame for an LIN message
- Analysis of LIN messages using LIN monitor and oscilloscope
- Interpretation of LIN messages using LIN monitor and oscilloscope
- Editing and sending LIN messages using a PC
- Fault simulation (software-activated errors)

- Course duration: 8 h approx., (fault finding 1 h approx.)