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Product Name :
Automotive Bus Systems Basics Trainer

Product Code :
LBNY-0005-120000196



Description :

It is ideal for introduction into networked systems in modern vehicles. It has two transmitter and receiver units. This system is specifically designed to teach basics of bus technology. Each unit can be given an address, such as those used in automotive ECUs. These messages can be measured with an oscilloscope and recorded. On the receiver side 8 outputs can be connected to LED's, which correspond to a typical vehicle lighting. The transmitter can be customized 2 x 4 bits to send messages over a single bus line.

Course Contents:

Assign and transmit data in binary mode
binary number system conversion of values, bit significance LSB / MSB addresses
Hexadecimal, conversion of binary values in hexadecimal address assignments
Bus Electrical Systems, topology
Driving a vehicle lighting in different situations by sending different messages to their respective receivers via a single cable
Serial communication, information packets with address and data blocks, processing
Collisions of data packets
Using the oscilloscope, identifying and interpret messages.

Technical Specification :

Components:

1 x Transmitter unit with transparent window to Interior
1 x Receiver unit with transparent window to Interior incl. 8 control LED's
3 x Switch for sending

8 x Data switch
16 x Address switch
2 x Data cable connectors
2 x Power sockets 12V DC
8 x Signal outputs
12 x LED's in printed vehicle with 8connection terminals.



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