ITEM NO. 12 031 200 · TP-LAB

TP-Lab Network Diagnosis 4.0

Diagnosis just like at the workshop: **Four bus systems, integrated diagnostic tester with fault memory**. Read, measure, diagnose, repair, and verify faults. A complete fault matrix for LIN, CAN Class B/C, and FlexRay in **13 Diagnostic scenarios with 51 faults**.



AT A GLANCE

FORM FACTOR
Laboratory Trainer in a Console Housing

VOLTAGE
10 to 15 V DC

LEARNING UNITS
13 Diagnostic Situations · 51 faults

HANDBOOK
200 Pages · Theory · Tasks · Solutions

E-LEARNING
Optional

LEVEL



Entry 15 % **In-depth** 62 % **Specialist** 23 %

Why This Trainer?

01
Four bus systems, true to life

LIN, CAN Class B/C, and FlexRay with simulated control units that behave just like the originals—a complete error matrix for each bus.

02
Faults such as those that occur during operation

The trainer sets up faults covertly via the menu, and the trainee narrows them down using the fault memory.

03
The Complete Workshop Process

Read, measuring, narrowing down the problem, repair, clearing the fault memory, confirming in diagnostic input mode—the entire workshop process right on the device.

04
Classroom-ready & Secure

13 Diagnostic scenarios with 51 faults, complete solutions, theory, and curriculum alignment — safely using 12-V low voltage.

Technical data

DIMENSIONS (W × D × H) **399 × 297 × 150 mm**	WEIGHT **3.1 kg**	POWER SUPPLY **10 to 15 V DC**
CURRENT DRAW **3 A**	MEASURING SOCKETS **94 × 2 mm · 4 × 4 mm**	EMISSION SOUND PRESSURE **< 70 dB(A)**

CE UKCA RoHS EN

13 Diagnostic scenarios · 51 faults — approximately 24 hours of training time

NO.	TASK	DIFFICULTY	TIME PER FAULT
1	Power Supply Diagnosis 1 · F1, F2, F3, F6	★☆☆☆	20 min
2	Power Supply Diagnosis 2 · F7, F8, F9, F10	★☆☆☆	20 min
3	LIN — Short Circuit · F43, F44, F45, F46	★★★★	30 min
4	LIN — Open circuit / Resistance · F47, F48, F49, F50	★★★★	35 min
5	CAN-B — Tailgate · F11, F12, F13, F14	★★☆☆	25 min
6	CAN-B — Driver's Door · F15, F16, F17, F18	★★☆☆	25 min
7	CAN-B — Vehicle Electrical System · F19, F20, F21, F22	★★☆☆	30 min
8	CAN-C — Gateway · F23, F24, F25, F26	★★★☆	30 min
9	CAN-C — Particle Sensor · F27, F28, F29, F30	★★★☆	30 min
10	CAN-C — Engine · F31, F32, F33, F34	★★★☆	30 min
11	FlexRay — Line · F35, F36, F37, F38	★★★☆	30 min
12	FlexRay — Internal to the control unit · F39, F40, F41, F42	★★★☆	35 min
13	Special Cases (Bus Overload / Vehicle Electrical System) · F4, F5, F51	★★★★	30 min

Components and Scope of Delivery

ONBOARD COMPONENTS

Console housing, table, or DIN-A4 mounting frame	
Bus systems: CAN-1, CAN-2, FlexRay, LIN	
Ignition Switch	**1 ×**
Vehicle electrical system with G1 battery	
LEDs for Automotive Lighting	**12 ×**
Auto Mode with Driving Profile	
7-Inch touchscreen	
Measurement points: 2 mm	**23 ×**
Ground Reference Jacks	**2 ×**
Jumper plug with test point	**35 ×**
DSUB-9 bus connectors	**5 ×**
Power supply jacks 10–15 V DC	**4 ×**

SCOPE OF DELIVERY

- 1 × TP-Lab Network Diagnostics (12,031,200)
- 2 × 2-Mm diagnostic cables
- 1 red jumper plug and 1 black jumper plug
- 2 × BNC-to-4-mm adapters
- 2 × Test leads, 4 mm to 2 mm (red / black)
- Operating Manual, EU Declaration of Conformity

RECOMMENDED ACCESSORIES

Power Supply Unit TS15	**12 050 015**

Relation to the Curriculum

UK IMI · ST0033	**US** ASE Education Foundation	**CA** Red Seal RSOS	**AU** AUR30620 Cert III

Examples — in total the tasks are mapped to more than 90 curricula.