

MIREL TZJU Central Units Universal Test Unit

TZJU Type

Illustrative picture

Universal test unit MIREL TZJU has been intended for testing and diagnostics of MIREL devices and systems.

Structural design of TZJU test unit is a modular one, in form of 19" mobile unit wired to control PC by means of an USB interface.

Interface to system to be tested comprises

- 48 binary inputs
- 48 binary outputs
- 3 current analogue inputs $4 \div 20\text{mA}$
- 1 voltage analogue input $0 \div 10\text{V}$
- 8 voltage analogue outputs $0 \div 10\text{V}$
- 8 current analogue outputs $0 \div 50\text{mA}$



Test unit comprises also power supply sources for devices to be tested and a set of connector pieces for connection of required peripherals. Depending on modification, it can comprise integrated VZT test unit for comprehensive infrastructure testing and simulation for diagnostic needs of connected devices.

Apart from accessories of standard set, it is necessary also to order optional accessories depending on type and version of system to be submitted to diagnostics.

Nomenclature

TZJU.V.U
└─ Scope and function properties
└─ Device version

Modifications

Designation	Power supply	Dimensions (w x h x l) [mm]	Weight [kg]	Extension option	Diagnostic connector	Notes
TZJU.2.B	230VAC	510 x 160 x 390	10,3	–	–	1)
TZJU.2.C	230VAC	510 x 160 x 390	10,3	✓	✓	2)

1) comprises integrated VZT.3 test unit without option of SHP testing, currently a run-out model

2) comprises integrated VZT.4 test unit enabling SHP testing

Accessories in a Standard Equipment Set

Designation	Description	Notes
KZTZJU.1.P	TZJU bundle of cables for peripherals	1)

1) a part of accessories is also 230VAC power supply cable and USB-A-B interconnection cable

Optional Accessories

Designation	Description	Note
KZTZJU.1.VZ1	Bundle of cables for connection of VZ1ZJ	1)
KZTZJU.2.STB	Bundle of cables for connection of STB	
KZTZJU.1.SHPE	Bundle of cables for connection of SHPE	
KZTZJU.1.RM1	Bundle of cables for connection of RM1ZJ	2)
KZTZJU.1.RS812	Bundle of cables for connection of RS812ZJ	
KZTZJU.1.RS813	Bundle of cables for connection of RS813ZJ	

1) for wiring of VZ1ZJ.1 it is necessary to order also REDKZ.1.VZ1A reduction bundle

2) for wiring of RM1ZJ.2 it is necessary to order also REDKZ.1.RM1A reduction bundle

Scope and Function Properties

Designation	binary inputs/outputs	Analogue inputs/outputs	IRC simulation	LS, EVM simulation	SHP simulation	Notes
A	✓	✓	-	-	-	
B	✓	✓	✓	✓	-	
C	✓	✓	✓	✓	✓	1)

1) comprises diagnostic connector piece as well as a connector for extension by additional inputs/outputs

Specifications

Catalogue sheet has been compiled based on specifications below:

No.	Version	Title
1442TZJU	230125	Operating Manual

Use

- MIREL VZ1 – train protection
- MIREL RM1 – registration speedometer
- MIREL RM2 – integrated on-board system
- MIREL RS812 – control system
- MIREL RS813 – control system