

Figure 1: V 2290 handheld programmer

### Description

The handheld programmer V 2290 is a testing and programming tool for VARIZONE AMS/DSS bus components. By using the handheld programmer the following can be carried out:

- AMS/DSS bus cable check for short circuit, continuity and polarity
- Addressing of VARIZONE AMS/DSS bus components

### Main features

- Automated AMS/DSS bus cable check
- LEDs for the indication of:
  - Test in progress
  - Result of cable test
  - Addressing in progress
  - Battery state
- Rotary encoder with integrated push button functionality for:
  - Activation of the handheld programmer
  - Address selection
- Push buttons for:
  - Activation of the cable test procedure
  - Writing of the address to the docking station
  - Recall of the saved address
- Display for address indication
- Auto-off function 5 minutes after the last action was carried out
- Powered with a 9 V battery
- Added cable for the connection of the handheld programmer to the docking station
- Added passive test adapter for the installation at the disconnected cable end at the beginning of each DSS bus cable section

### Specification

Connectors	D-SUB connector 9-pin, female for the installation of the connection cable
Push buttons	3; red
Encoder/push button	1
LEDs	6; 4 x red, 1 x green, 1 x yellow
Display	3 x 2-digit 7 segment display, red, for module address indication
Supply voltage	9 V typ., provided by a single 9 V battery, type 6LR61; the battery is included in delivery
Power consumption	60 mW @ display on; auto-off 5 minutes after last action
Ambient temperature limits	0° C min., 40° C max. for the operation of the device
Dimensions	Depth: 130 mm / 5.12" (with D-SUB connector) Height: 25.4 mm / 1" (without encoder knob) Width: 65 mm / 2.56"
Weight	4 lbs. (175 grams) typical with all connectors, knobs and battery

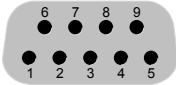
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Specifications subject to change without notice

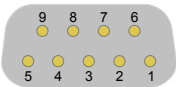


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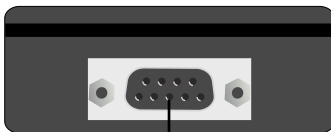
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9-Pin  
D sub Detail



View of installation side



D-SUB connector for the installation of the connection cable

Figure 2: Handheld programmer V 2290, installation side

## Accessories

Connection cable

Number: 1

Cable type: RS232 cable, 1:1

Cable length: 2 m

Connectors:
 

- D-SUB 9-pin, male for the connection of the cable to the handheld programmer
- Card edge connector 30-pin, male for the connection of the cable to the docking station

Passive test adapter

Number: 1

Installation: Installed at the disconnected cable end of each bus cable section before beginning cable test procedure

## Pin configuration

Handheld programmer D-SUB connector 9-pin, female for the installation of the connection cable

Pin	Signal
1	SCK
2	GND
3	Shield
4	TX- IN
5	RX+ IN
6	VCC
7	SDI
8	TX+ IN
9	RX- IN

## Connection cable for the handheld programmer

D-SUB connector 9-pin, male for cable connection to the handheld programmer

Pinouts of this connector are identical to those of the corresponding D-SUB handheld programmer connector.

View of operating elements

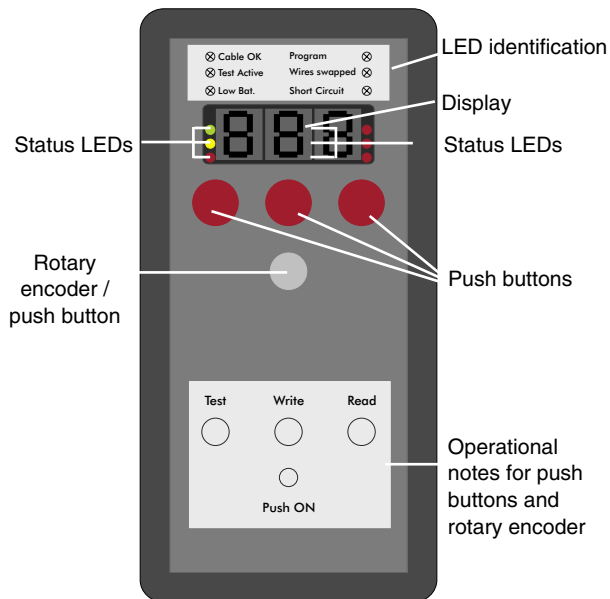


Figure 3: Handheld programmer V 2290, operating elements

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