

Manual - diagnostics of Vetronics units

Diagnostics is used to check and configure Vetronics and connected peripherals

We run the diagnostics via the web interface at: diag.princip.cz, where we will log in via your account.

RECOMMENDED: Google Chrome can be automatically translated to native language using Google Translate.



A screenshot of a login form. At the top left is a blue button labeled "New user". Below it are two input fields: "Username" and "Password". At the bottom left is a blue button labeled "Log in".

If you do not have an account, click [New user](#) to register. Within two working days, you will receive your login information on email.



A screenshot of a registration form. At the top left is a blue button labeled "New user". Below it are several input fields: "Name:", "Surname:", "E-mail:", "Phone number:", and "Company name:". At the bottom left is a blue button labeled "Register". Below the registration fields are two input fields: "Username" and "Password". At the bottom left is a blue button labeled "Log in".

When you sign in, you'll see a homepage where we have several options:

- **search for unit...:** search units (např.: S760A00001)
- **CD code:** SECURITY CODE AGAINST REMOTE SETTINGS
the code on the unit label
- **update:** page updates
- **Service Manuals:** Instructions and schemes for installing units
- **Diagnosed units:** History of diagnosed units

Diagnostics update	search for unit...	Search	lang@princip.cz ▾
	CD code		

Contact: diag@princip.cz, +420 735 762 681

[Service Manuals](#)

[Diagnosed units](#)

Three-color rule:

Diagnostics remembers what user has set and whether the setup/check is successful.

Test result by color:

- **RED:** test failed
- **BLUE:** test in progress (necessary **update** or **reload** page until the test is completed)
- **GREEN:** test/configuration successful

Key on
Key on
Key on

IMPORTANT: constantly update diagnostics → click **update** or **reload**!

Diagnostics update	search for unit...	Search	lang@princip.cz ▾
	CD code		

Key on (before 9 minutes)
<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"> Abort the test </div>
Waiting for connection with the unit, reload the page

After finding the unit, according to the serial number, the configuration / check options are displayed.

Diagnostics update	S770A 81	Search	lang@princip.cz ▾
	CD code		

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[Service Manuals](#)

Diagnosed units

Unit	S770A 81	online: before 32 minutes
Phone number	898	610 (SMS)
Key on		
Key off		
Key and S/S drive button on		
Driver's identification configuration		
CAN0		
CAN1		
Tachograph (serial output) Continental/VDO		
Tachograph (serial output) Stoneridge		
Other peripherals		
Single tests		

Description of individual tests or configurations

Key on

The basic unit test, which controls the still power supply „KL30“, the power supply of behind the key „KL15“, and the GPS signal.

Key on
(before 4 minutes)

- Switch the key on, check the red LED
- if not flashing or not lit up, check power, GND and the key
- check the green LED
- if not lit up - check the SIM
- if still flashing - set up APN via SMS

Run the test

Cancel

TEST - OK - 2019-05-09 16:06:08 - lang@princip.cz

Key on test	key on
GPS	GPS position measured, number of satellites: 7
S	OK GPS=7 u=3 A=16 APN=princip.cz(-) alive=3h aux=nmea id=(-) SN=S7 5 FW=7.1.2.11

MODEL SITUATION: In this case, the check was successful (**green**).

GPS location OK (GPS=7), key on (u=3) ...

OK GPS=7 u=3 A=16 APN=princip.cz(-) alive=3h ...

Key on
(before 6 seconds)

- Switch the key on, check the red LED
- if not flashing or not lit up, check power, GND and the key
- check the green LED
- if not lit up - check the SIM
- if still flashing - set up APN via SMS

Run the test

Cancel

TEST - ERROR - 2019-05-09 16:00:07 - lang@princip.cz

Key on test	key on
GPS	GPS position not measured, number of satellites: 0
S	ERR GPS=0 u=3 A=16 APN=princip.cz(-) alive=3h aux=nmea id=(-) SN=S71 5 FW=7.1.2.11

MODEL SITUATION: In this case, the check was unsuccessful (**RED**).

Without GPS signal (GPS=0), key on (u=3) ...

ERR GPS=0 u=3 A=16 APN=princip.cz(-) alive=3h ...

v1.1

Key off

The basic unit test that checks off power behind the key.

Key off
(before 34 seconds)

- Switch the key off

[Run the test](#)

[Cancel](#)

TEST - OK - 2019-05-09 16:13:55 - lang@princip.cz

Key off test	key off
S	OFF GPS=7 u=1 A=16 APN=princip.cz(-) alive=3h aux=nmea id=(-) SN=S7 5 FW=7.1.2.11

MODEL SITUATION: In this case, the check was successful (**green**).

Key off (u=1) ...

OFF GPS=7 **u=1** A=16 APN=princip.cz(-) alive=3h ...

Key off
(before 1 minute)

- Switch the key off

[Run the test](#)

[Cancel](#)

TEST - ERROR - 2019-05-09 16:11:39 - lang@princip.cz

Key off test	key on
S	OK GPS=7 u=3 A=16 APN=princip.cz(-) alive=3h aux=nmea id=(-) SN=S7 5 FW=7.1.2.11

MODEL SITUATION: In this case, the check was unsuccessful (**RED**).

The voltage behind the key still present (u=3) ...

OFF GPS=7 **u=3** A=16 APN=princip.cz(-) alive=3h

Rule green and red is the same for all tests!

v1.1

Key and S/S drive Button on

Used to configure and control the private / business trip switch (**red diode = private ride**).

Key and S/S drive button on

- Switch the key and the S/S drive button on

Run the test

Drivers identification configuration

Only configures the reader of drivers identification, driver login test - **SINGLE TESTS - driver identification**.

Driver's identification configuration

* the unit will be configured only

Configure

Reader Dallas ▾

Reader Dallas

Reader Chafon

Reader ARD2

RFID reader SL025

RFID reader SL032

RFID reader D136

CAN0

Used to set the CAN0 controller.

Select the type of configuration according to the connection.

- **OBD/CAN** = Universal setting
- **OBD for VW Group vehicles** = Settings for VW Group vehicles (VW, ŠKODA, SEAT ...)
- **FMS** = FMS settings
- **FMS + Tachograph download test** = FMS + tachograph availability check

v1.1

CAN0

* the unit will be configured

- switch the key on

Run the test

- OBD/CAN
- OBD/CAN
- OBD for VW Group vehicles
- FMS
- Tachograph download

CAN1

Used to set the CAN1 controller.

Select the type of confirmation according to the connection.

- **OBD/CAN** = Universal setting
- **FMS** = FMS / **IBR probe** setting
- **Tachograph download test** = Check the availability of the tachograph

CAN1

* the unit will be configured

- switch the key on

Run the test

- OBD/CAN
- OBD/CAN
- FMS
- Tachograph download

TACHOGRAPH Continental/VDO

Used to configure and check data reading from **Info line D8, AETR** (connector D, position 8) on the Continental / VDO tachograph.

Tachograph (serial output) Continental/VDO

* the unit will be configured

- connect the unit to the tachograph Continental serial output

- switch the key on

Run the test

v1.1

TACHOGRAPH Stoneridge

Used to configure and check data reading from **Info line D8, AETR** (connector **D**, position **8**) on the Stoneridge.

Tachograph (serial output) Stoneridge

* the unit will be configured

- connect the unit to the tachograph Stoneridge serial output
- switch the key on

[Run the test](#)

OTHER PERIPHERALS

Switch on the internal source

Used to configure the power output of **PWR_ADJ** (position 2, red/yellow wire).

Only for Vetronics 721 and Vetronics 770. Used for RFID readers and thermometers

Other peripherals

Switch on the internal source

* the unit will be configured only

[Configure](#) 3,3V with the key ▼

- 3,3V with the key
- 3,3V still with the key off
- 5V with the key
- 5V still with the key off

Temperature sensor

Used to only configure the thermometer type.

Thermometer test in **SINGLE TESTS** → **thermometer test**.

Other peripherals

Temperature sensor

* the unit will be configured only

[Configure](#) Papouch ▼

- Papouch
- Dallas

v1.1

Semitrailer identification

Used to only configure semitrailer identification. Trailer Identification test in **SINGLE TESTS**
→ test of semitrailer/implements identification

Other peripherals

Semitrailer identification (CZ: identifikace návěsu)

* the unit will be configured

- connect the semitrailer identifier (CZ: připojte identifikátor návěsu)

[Configure](#)

OTHER PERIPHERALS – Analog inputs

IN1 grounding/disconnection configuration

Other peripherals

Analog inputs

IN1 grounding/disconnection configuration

* the unit will be configured only

- work indication: e.g. gradient sensor for trailer (CZ: např. senzor sklopu pro přívěs)

[Configure](#)

IN3 grounding/disconnection configuration

Other peripherals

Analog inputs

IN3 grounding/disconnection configuration

* the unit will be configured only

- work indication: e.g. gradient sensor (CZ: např. senzor sklopu)

[Configure](#)

IN2 (alternator) configuration

Other peripherals

Analog inputs

IN2 (alternator) configuration

* the unit will be configured only
- engine hours from the alternator

[Configure](#)

The engine speed – IN4 input

Other peripherals

Analog inputs

The engine speed - IN4 input

* the unit will be configured
- start the vehicle, keep idling

[Run the test](#)

IN3 high/low level configuration

Other peripherals

Analog inputs

IN3 high/low level configuration

* the unit is configured only
- work indication: e.g. PTO

[Configure](#)

Engine speed configuration – UAR

Other peripherals

Analog inputs

Engine speed configuration - UAR

* the unit will be configured only
- engine speed - UAR input

Configure

SINGLE TESTS

bus information reading test

Used to test reading data from CAN-BUS.

Single tests

bus information reading test

* bus values will be written out

Run the test

test of semitrailer/implements identification

Used to test identification of semitrailer/implements.

Single tests

test of semitrailer/implements identification (CZ: test identifikace návěsu/náradí)

* the semitrailer/implements identifier will be read out

Run the test

v1.1

driver identification

Used to test driver identification (before the test attach the chip).

Single tests

driver identification

- switch the key on and log in the driver

Run the test

thermometer test

Used to test thermometer.

Single tests

thermometer test

* configured thermometers and their values will be written out

Run the test

test analog inputs

Used to test analog inputs.

Single tests

test analog inputs

* analog input values will be written out

Run the test

v1.1

tachograph download from CAN0

Used to test tachograph download, connected to **CAN0**. **Turn the key on during the test!**

Single tests

tachograph download from CAN0

- switch the key on

[Run the test](#)

tachograph download from CAN1

Used to test tachograph download, connected to **CAN1**. **Turn the key on during the test!**

Single tests

tachograph download from CAN1

- switch the key on

[Run the test](#)

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