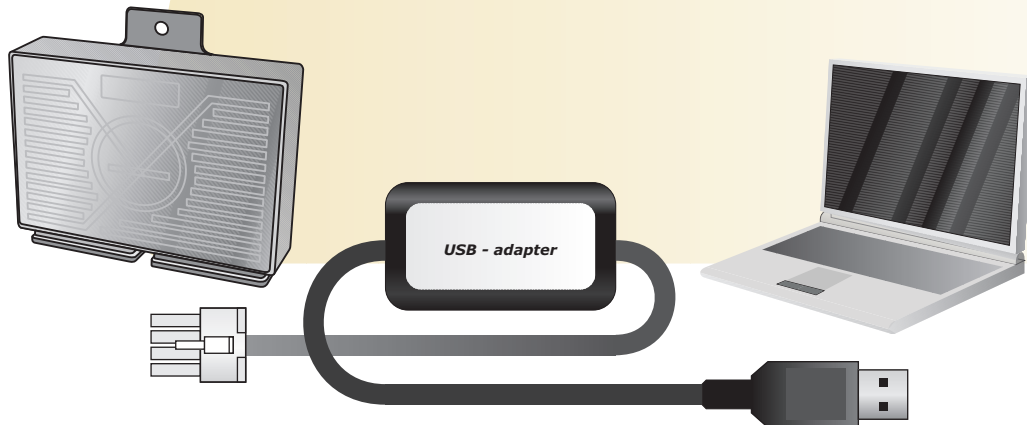


# USB adapter

TAMONA

## USB adapter with optoisolation

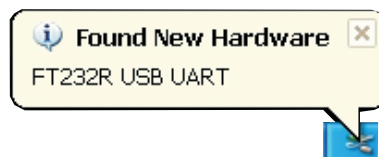


USB adapter (or interface cable) is the unit that provides interface connection with ECUs TGstream and ProGas and personal computer (PC) through USB port. As well, due to galvanic decoupling adapter isolates PC from high-voltage static discharges which originate in cars.

## Drivers installation on PC

Drivers installation is carried out only at first adapter connection to PC. Below are general guidelines to drivers installation of adapter in operation system Windows XP.

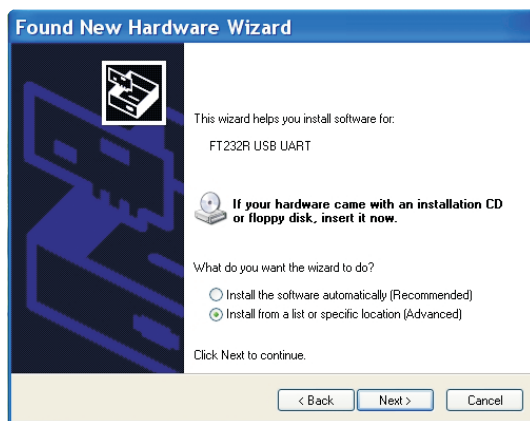
1) Insert connector to PC USB-socket . There will appear message “Found new hardware” in the bottom right corner of the screen and “New Hardware Wizard” will be started.



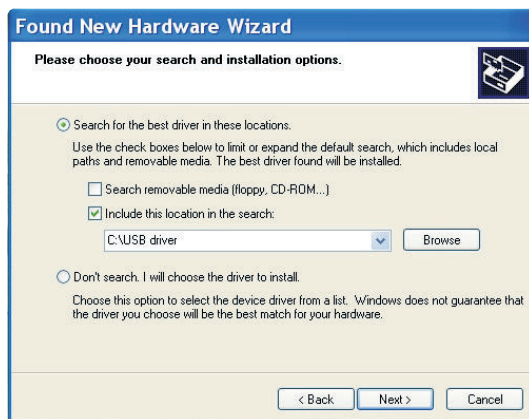
2) Select “No, not this time” in the appeared window and press the button “Next”



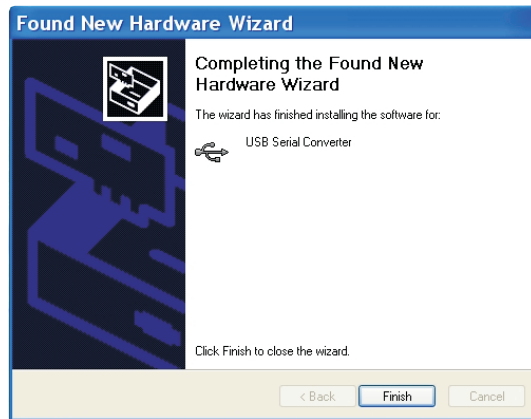
3) Select proper location for driver installation by clicking “Install from a list of specific location (advanced)” and push the button “Next”



4) Search for the best driver in these locations and mark “Include this location in the search”. Push the button “Browse” and point directory of the driver. Driver is kept in original CD ROM of TG-Stream/ProGas software in \USB driver\directory and on webpage and FTP server of UAB “Tamona”. After selecting directory, push the button “Next”.



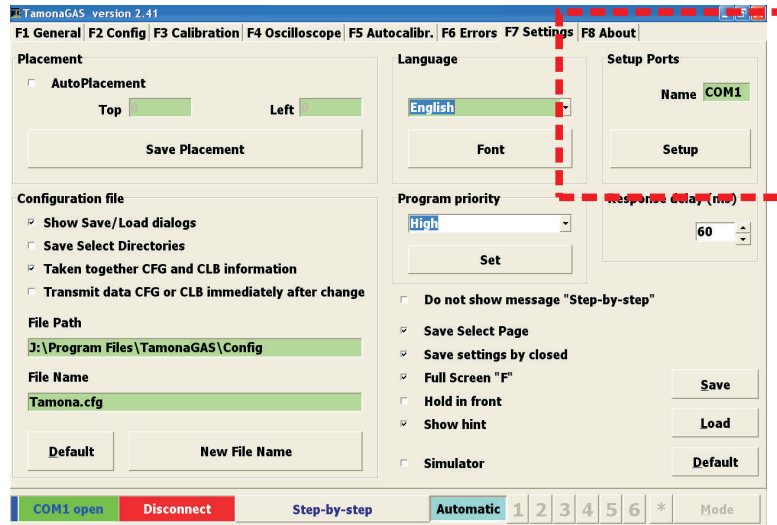
5) After installation complete push the button “Ready”.



6) “New Hardware Wizard” will be started ones again. Repeat steps 1...5.

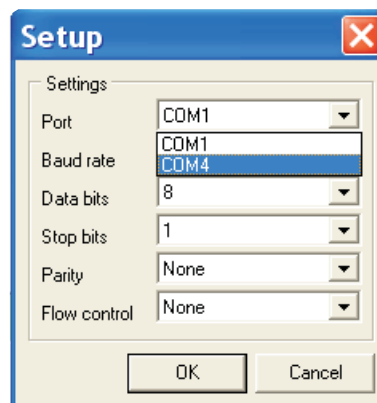
# Port Setup in TamonaGas program

1) Start TamonaGas program. Go to tag F7 'Settings'



2) Push the button "Setup" in panel "Port"

3) Select new COM port in new window, eg. COM4. All settings left the same. Push the button "OK".



Trueness of port selection is accompanied with green panel of port status and message: "Port open".

## Technical features

Supported by operation systems	Windows 98, 98SE, ME, 2000, Server 2003, XP, Server 2008, Vista
USB specifications	USB 1.1 и USB 2.0
Supply	USB bus (USB bus (+5V, 15 mA) and ProGas/TGstream ECU (+15V,15mA)
Isolation voltage	3750 V
Whole cable length	2,2 m
Temperature range	-40 ... +85 °C

## Cable pin-out

GND - ground  
+12 V - source of supply  
TXD - data output  
RXD- data input

