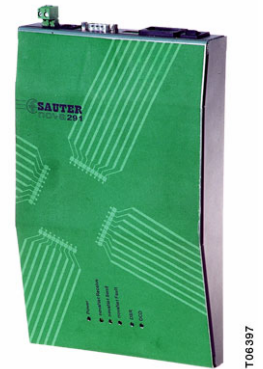


EYZ291: novaNet291, Router

The novaNet router EYZ291F001 is used to link the novaNet EY3600 bus to a (notebook) PC via the COM interface. The link is made either direct to the PC-COM interface, or via a dialling modem or any other switched or unswitched pair of devices that are RS232 compatible (ISDN adaptor, line driver, converter for optical fibre, dedicated-circuit modem, radio modem etc.).

The novaNet router has 1 MB of buffer for the link of the novaNet and the RS232 interface. Dialling is possible from above (remote access) and below (remote monitoring, i.e. automatic reporting of relevant events).



Products

Type	Description	Power supply	Weight kg (lb)
EYZ291F001	novaNet-router	230 V~	0.99 (2.2)
EYZ291F005	novaNet-router UL- listed	115 V~	0.99 (2.2)

Technical data

Electrical supply	
Power supply	
EYZ291F001	230 V~, 50/60 Hz
EYZ291F005	115 V~, 50/60 Hz
Max. current	10 VA
novaNet	1× a/b terminals 1× RJ-11 socket
COM interface	DB9 plug as per DTE

Permitted ambient conditions

Operating temperature	0...45 °C (32...113°F)
Storage and transport temperature	-25...70 °C (-13...158°F)
Humidity	10...90% rh no condensation

Standards, guidelines and directives

CE conformity as per	
EMC Directive 2004/108/EC	EN 61000-6-1/EN 61000-6-2 EN 61000-6-3/EN 61000-6-4
Agency USA/Canada	UL listed: UL 60950 CSA certified: C22.2 No 60950

Additional information

Fitting instructions	MV 505463
Dimension drawing	M06707
Wiring diagram	A06705

Accessories

Type	Description
0367862001	Connecting cable novaNet291 – AS 1.5 m (4.9 ft)
0367862002	Connecting cable novaNet291 – AS 2.9 m (9.5 ft)
0367862003	Connecting cable novaNet291 – AS 6 m (19.7 ft)
0386301001	Connecting cable EYZ291 – PC 3 m (9.8 ft)

Engineering notes

- The novaNet291 has been designed for fitting onto top-hat rails (EN 50022), for use with a portable or for use as a desk-top model.
- EYZ291F001 is supplied with 230 V~, while EYZ291F005 is supplied with 115 V~.
- Located on the rear are: socket for mains power supply (3-core cable, P+N+E is essential); mains power switch; a DB9 plug for the RS232 connection; one DIL switch for selecting the router/routel mode; three DIL switches for selecting the baud rate (19200, 38400, 57600); an RJ11 socket; and a plug-in screw terminal for connection to the novaNet.

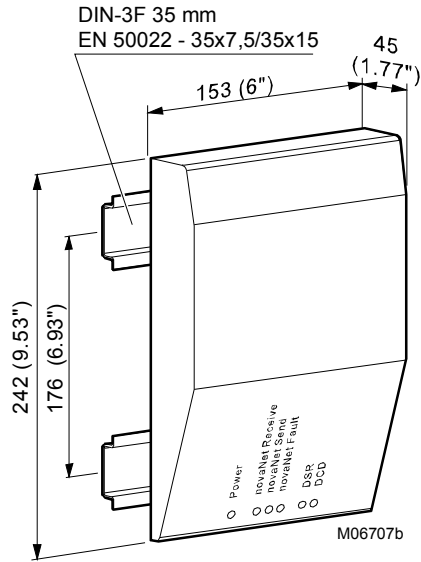
DIL switches



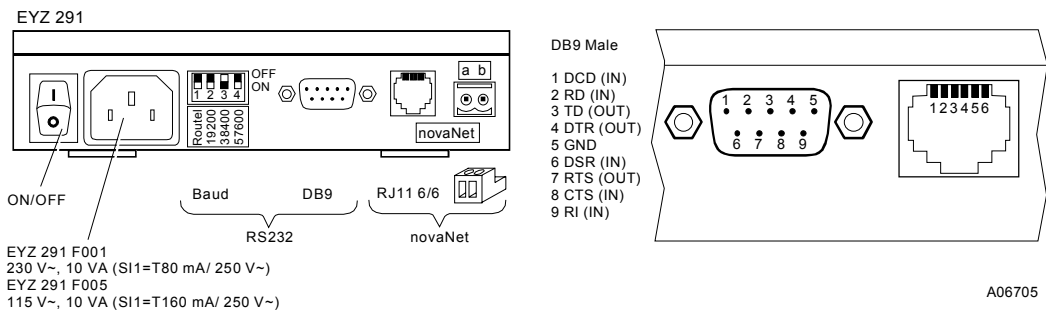
Switch 1 = ON ('down' position) switches the novaNet291 to the routel mode.

The baud rate for the COM interface can be selected by setting the relevant DIL switch (38400 baud recommended). If no baud-rate switch is set, a rate of 9600 baud is used.

Dimension drawing



Wiring diagrams

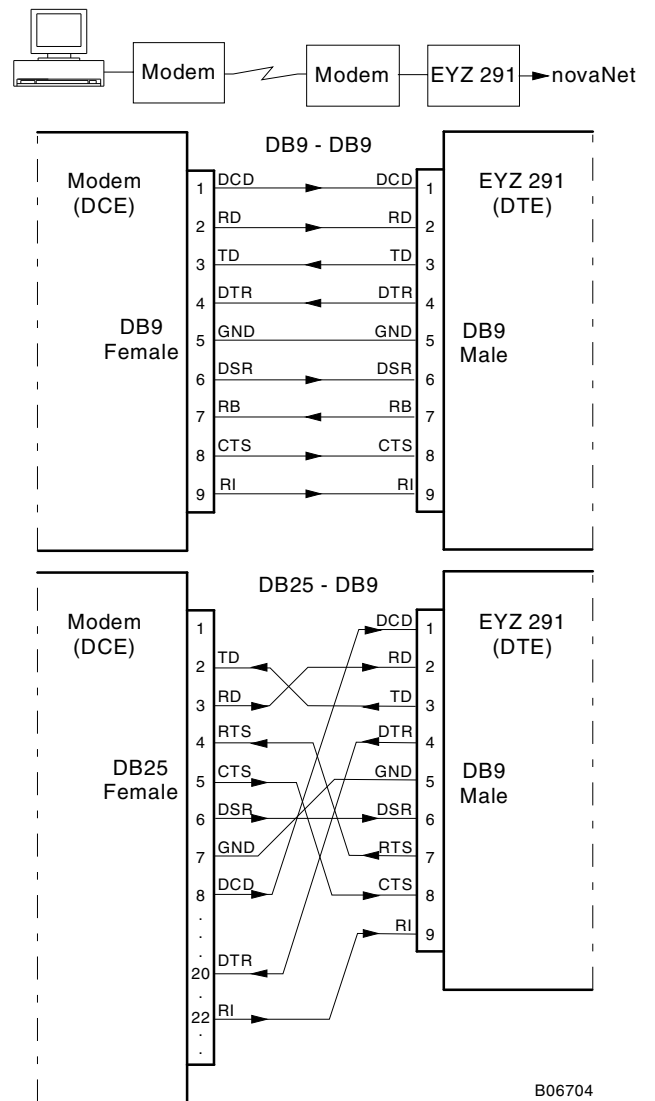
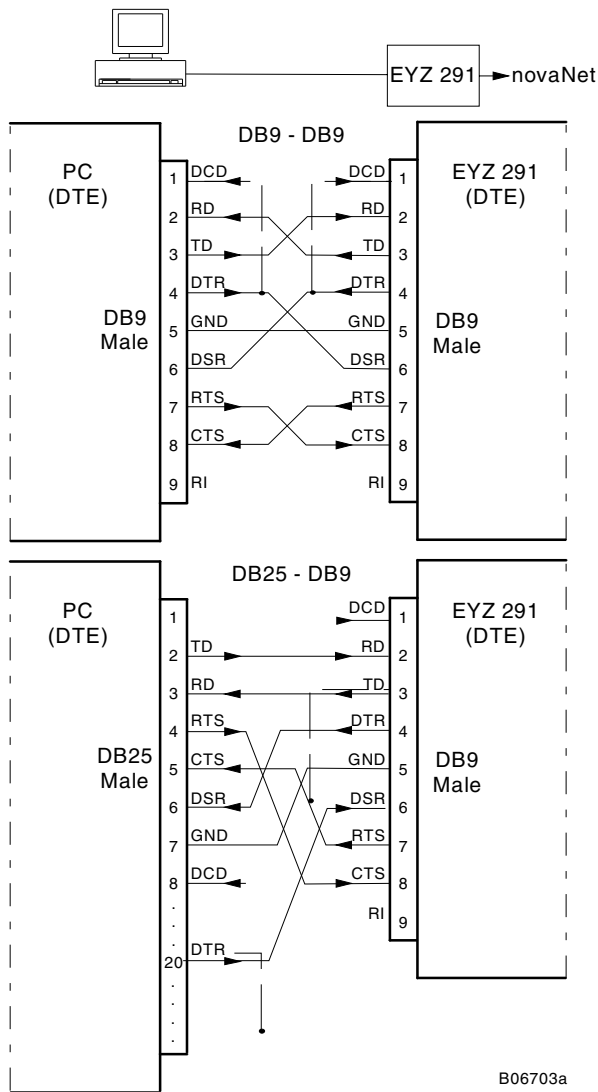


Wiring

Note:

The pin assignment of the RS232 connector is in accordance with DTE (data terminal equipment), i.e. crossed cables must be used for connection to a PC (=DTE).

- Cross-over as per the diagram below.
- Not all 'zero-modem cables' are suitable.
- An uncrossed cable (supplied with the modem) is used for the connection to the modem.

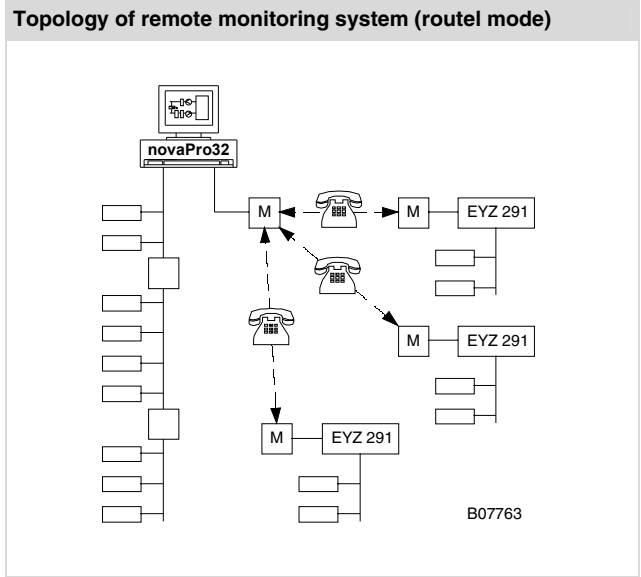


For making the connection to the AS with an RJ11/RJ12 cable, the cables listed above under 'Accessories' are suitable.

The PC address is set using the EY3600 software. The address range reserved for management-level PCs with router covers the area from 31744 to 31999; for management-level PCs with routel, it covers the area from 32512 to 32767. See manual 7000991 003.

Application

- **Clip-on PC:** Access to the AS network using operating PCs that do not have an ISA slot (notebook PC).
- **Remote access (router mode):** Access from operating PCs to the novaNet via all types of switched or unswitched networks by inserting two DCEs (e.g. modem access via telephone network, but also access via ISDN TA, fibre-optic converter, COM server, CATV modem, radio modem etc.).
- **Remote monitoring (routel mode):** Outlying islands report 'events worthy of being reported' (parameterised via novaPro32) via a switched network to a central operating station.



LED indicators and their meaning

Power	green	Mains power is present
novaNet Receive	yellow	Flashes irregularly when telegrams are circulating on the novaNet.
novaNet Send	yellow	Flashes when the novaNet router sends telegrams to the AS.
novaNet Fault	red / yellow	Fault on the novaNet: e.g. earth-leakage fault (any pole); extraneous voltage DC or AC; > 50% of the AS have no power. (LED red when: a < 3.74V, a > 8.88V, b < 1.11 V, b > 6.22 V)
DSR	green	The modem or PC connected to the router (whose DTR is crossed) is ready for operation.
DCD	green	'Connected' ('Online') signal from a modem.