EYW 300: novaWeb, Embedded web server on automation level

T10364

The **novaWeb** web server links an automation station, or a group of automation stations, of the EY3600 system with the internet. The interface to the stations is Sauter's **novaNet** system bus, access to which is via the **novaNet291** router. This web server is normally used in outlying automation islands/buildings with a low to medium-sized number of data points for which there is no management level with integrated web server. Existing systems can be upgraded without any additional engineering work being needed.
In conjunction with web clients such as PCs, laptops and operation via browser, plant-monitoring tasks and remote alerting can be performed with the option of remote access. The **novaWeb** web server can also easily be operated using simple clients such as PDAs or smart phones. The cyclical transfer of plant-related data via e-mail also enables the connected systems to be optimised remotely. The integrated (parameterisable) firewall provides additional protection against unauthorised access. Depending on local circumstances, there are various internet access options available (e.g. analogue, GSM or ISDN modem, DSL router, WAN/LAN connection). All the described functions and features also apply by analogy for use on the intranet.

Type	Description	Power supply	Weight kg (lb)
EYW 300 F001	Web server on AS level	90-230 V~	0,9 (1,98)

Technical data

Power supply	
Separate power supply unit (supplied)	90-264 V~, 50/60 Hz
Power consumption in conjunction with external power supply unit (supplied)	approx. 30 VA

Model
Desktop unit with separate power supply unit, with accessories (see below);
can be fitted in control panel on DIN rail

Ports

2× Ethernet	WAN, LAN
2× RS232	1× for modem connection
	1× **novaNet291**

Ambient temperature	0...45°C (32...113°F)
Transport and storage temp.	–25...70°C (–13...158°F)
Ambient humidity	5...90 %rh without condensation
Degree of protection	IP 00 (EN 60529)
Protection class	I (IEC 60536)
Environment class	IEC 60721 3K3
Dimensions (H × W × D)	178 × 65 × 106 (mm) 7 × 2,6 × 4,2 (inches)
Conforms to EMC directive 89/336/EC	EN 55022 – Class A EN 55024

Documentation:-

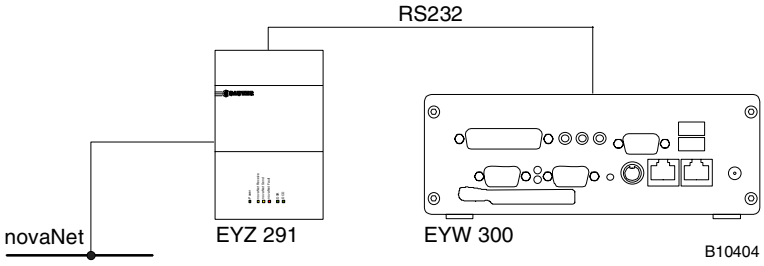
Wiring diagram	A10374
Dimension drawing	M10396
Fitting instructions	MV 505910
User's manual	7 001049
Programming manual	7 001050
Configuration manual	7 001056
Manual for quick start	7 001057

Accessories

0374501 001	Fitting kit for installing the separate power supply unit into a control panel
0374502 001	Fitting kit for installing the basic unit into a control panel, MV 505911
0386301 001	Connection lead for **novaWeb** <--> **novaNet291**

Operation

A **novaNet291** router is needed as the interface to **novaNet**.



Overview of main functions

Login/logout: There are four login levels with different passwords available. All user interventions are recorded in the logbook with identification.

Routing matrix for notification: Divided into eight reporting and information categories, alarms are sent to up to six different (and freely definable) e-mail recipients. A time profile can be set for each recipient.
Cyclical transfer of process data: The data archived in the novaWeb are sent cyclically to up to six different (and freely definable) e-mail recipients. The time grid for the data transfer is variable.

Portrayal of functions: The control loops, with the control deviation marked in colour, are clearly presented. A selected sub-installation is shown in a plant list grouped into:-

- switchable assemblies with operating and fault signals
- control loops with actual values, setpoints and positioning signals
- general binary and analogue values
- alarms

Historical data (HDB): The historical data (HDB) stored in the **novaWeb** can be called up and either grouped according to control loop or shown singly. The portrayed time period can be freely chosen.

Time, switching and positioning commands: Switching programmes can be created, and switching and positioning commands can be issued, provided authorisation has been given for the relevant user level. All user interventions are recorded in the logbook with identification.

Firewall: Integrated in **novaWeb** is a firewall, which can be parameterised.

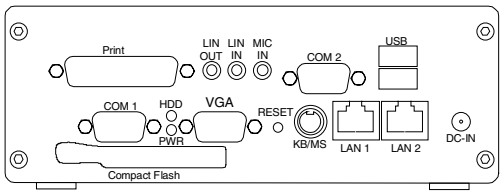
Auto-refresh function: The pages shown are refreshed at intervals set by the user. This function can be switched off, so the current page can then be refreshed only via the browser menu.

Connections

The following table shows: (i) the different ways that novaWeb can access the internet; (ii) the resultant ways in which the clients can access the automation station; and (iii) the type of connection between novaWeb (Server) and the relevant client (such as PC, laptop, smart phone PDA).

novaWeb EYW 300	Type of connection	Client
via analogue modem	dial-up; point to point	with analogue modem with GSM modem
via ISDN modem	dial-up; point to point	with ISDN modem with GSM modem
via GSM modem	dial-up; point to point	with analogue modem with ISDN modem with GSM modem
via ADSL router	standing connection	with intranet/internet access
via WAN/LAN	standing connection	with intranet/internet access

Connection diagram



LAN 1: WAN/ intranet/ internet
LAN 2: Local LAN for configuration
COM 1: Modem
COM 2: EYZ 291 router
(cable 386301 0001,: 3 m/ 9,8 ft)

DC-IN: External power supply unit

A10374

Dimension drawing