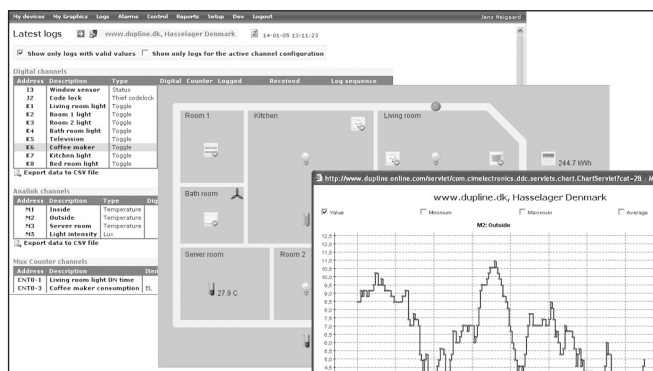


Dupline-Online Server Software

Types DUP-SERV-SW, DUP-SERV-ADD



Product Description

The Dupline®-Online server DUP-SERV-SW is a data logging, visualization and alarm handling software to be installed on a standard windows-based computer. It operates as web-server making the user interface with real-time and historical data accessible from any PC on the network (LAN and/or Internet) via a standard browser. The software is always used in conjunction with the Dupline® Data Logger G3800X036, which can be programmed by the user to

log and control energy consumption, analog values and digital events and alarms. The logged data is sent to the Dupline®-Online server via LAN/Internet or the GSM mobile network. The system, which is extremely easy and fast to set up, can be used equally well on a factory LAN for monitoring and control of energy consumption, temperatures and alarms etc. as for collection of data from several remote sites to a central point.

- Server software package for Data Logging, Energy Monitoring, Alarm Handling and Control of remote or local Dupline® networks
- Runs on standard Windows-based PC
- Logged data, events and control commands are transmitted to/from the Server via LAN, the Internet or the GSM network
- The Data communication between the Server and the Dupline® Data Logger is encrypted
- Data is stored in SQL database
- Built-in web-server makes data accessible from any PC with LAN- or Internet connection via a standard browser
- Access to data is protected by username and password
- Multiple users with different access levels can be created
- Configurable Graphical user interface for monitoring, control and change of parameters
- Easy export of data as EXCEL-files (e.g. consumption of energy, water and gas from several departments over a certain period of time)
- Trend curves and histograms
- Alarm handling system with reporting via SMS and/or E-mail and acknowledge of alarms via the LAN or Internet
- Switching of digital signals via the LAN, Internet or GSM
- Extremely easy Set-up and Configuration
- Possibility to select language on the user menu
- Operates with G3800X036 (Dupline® Data Logger)

Type Selection

Text	Ordering no.
Dupline®-Online Installation CD-ROM with license for one Data Logger (G3800X036)	DUP-SERV-SW
License to register each additional Data Logger (G3800X036) on the server	DUP-SERV-ADD

System Requirements

The Dupline®-Online Server requires a PC with either Windows XP or Windows 2000 installed. Furthermore a connection to the internet is required in order to activate the Dupline®-Online Server online. Once activated the internet connection is no longer required but recommended in order to send alarm messages via e-mail.

vate the Dupline®-Online Server online. Once activated the internet connection is no longer required but recommended in order to send alarm messages via e-mail.

PC hardware

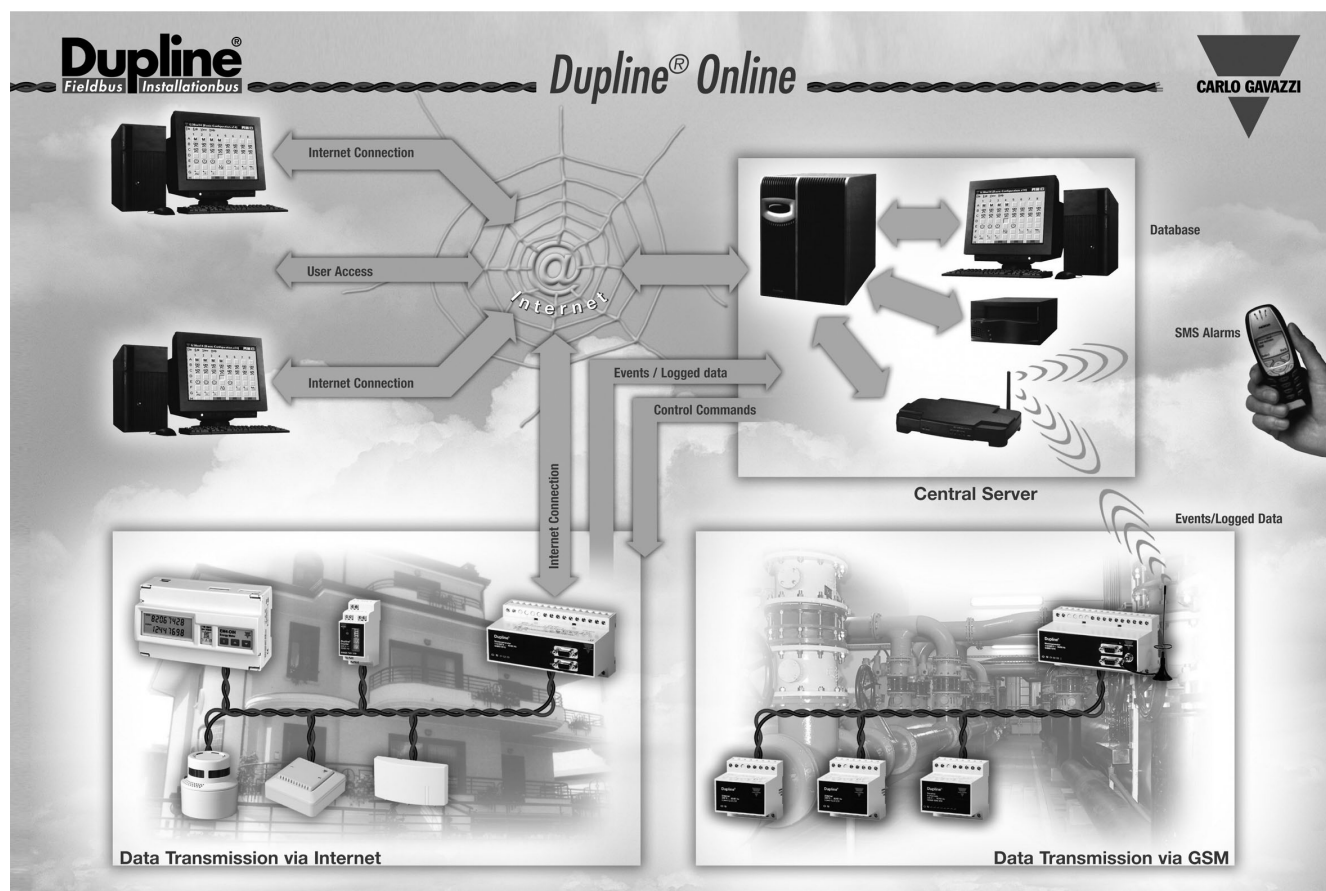
Minimum hardware requirements

1.6 MHz Pentium 3 processor
256 MB RAM
512 MB free hard disk space

Recommended hardware

2.0 GHz Pentium 4 processor
512 MB RAM
5 GB free hard disk space

Mode of Operation



Dupline®-Online is an Internet based concept for monitoring and control of remote or local facilities such as water works, factories, power stations, apartment buildings, super markets, gas stations, pump stations, unmanned railway stations etc.

The Dupline®-Online concept consists of the following elements:

1. Remote or local Dupline® networks each using a Dupline® Data Logger (G3800X036) as channel generator.
2. A central server receiving all the logged data via Internet/LAN or GSM and saving it in a SQL database. In practice this is a windows-based PC with the Dupline®-Online server software (DUP-SERV-SW) installed.
3. Any PC with Internet/LAN connection

On each remote site, there is a Dupline® 2-wire bus used by the Dupline® Data Logger (G3800X036) to collect and control field data such as energy, water and gas consumption, alarms, lighting, pumps, machine run-times, movement detectors, temperature, humidity, pressure, fluid levels etc. The Dupline® Data Logger (G3800X036) can be programmed to log any combination of digital, analogue and counter signals based on events or time and send them to the central Dupline®-Online Server via the Internet or via the built-in

GSM Modem (optional). It is also possible to switch digital Dupline® signals ON/OFF from the Central Dupline®-Online Server.

After the Dupline® Data Logger has been programmed, it needs to be registered on the central server. This is done via a file generated by the configuration software of the Data Logger. In this way the Central Dupline®-Online Server gets the unique ID code of the Data Logger and it gets information about the descriptions and scaling of the data that it will receive from the Data Logger via the Internet or the GSM network. During registration, the user also gets a user name and password (unless the Data Logger is registered under an existing user name). The user who registers the Data Logger, gets administrative rights, allowing him to create additional user names and passwords with different data access levels. Each log record sent to the Central Dupline®-online Server by the Dupline® Data Logger contains the unique ID code from the Dupline® Data Logger that sent it, enabling the Server to save the data in the log record under the correct device number in the database. The Dupline® Data Logger will continue to re-send the log record until the Dupline®-Online Server or GSM provider acknowledges it. Data transmitted via the Internet is protected by encryption, and data transmitted via the GSM network is protected by check of the phone number of the transmitting device. After the Dupline® Data Logger has been registered, the user gets access to the logged data and events on the central Dupline®-Online Server by entering his user name and

Mode of Operation (cont.)

password. All the data presented in tables and buffers are shown with time and date stamp. The user menu makes the following functions available:

- A configurable graphical user interface for monitoring, control and change of parameters (e.g. temperature set-points, switching times on real-time channels)
- Tables with "last logs" for digital, analog and consumption values (energy, water etc.). The status of digital signals are shown on a real-time basis, because the logging of these is event-based.
- Tables with historical data for selected Dupline® addresses for a certain period
- Consumption data (e.g. energy, water or gas) can be displayed as histograms or curves
- Logged analog signals can be displayed as trend graphs, with possibility to scan through time and zoom on parts of the graph.

- Alarm buffer showing events on selected Dupline® addresses in chronological order (only Digital and Analink set-point can be selected). The alarms can be acknowledged via the user interface, making it clear in a multi-user system who acknowledged the alarm.
- Possibility to send out alarms on selected addresses as SMS messages or Email
- Export of logged data as EXCEL-files
- Digital Dupline® signals can be switched ON/OFF from the Dupline®-Online user menu

Carlo Gavazzi can provide offers to customers interested in development of customized functions.

