

## LS920 - Computerized Control Unit (CCU)



### Function

The LS920 is an intelligent modulebuilt CCU, which can execute all kinds of control and regulation and can work by itself or as a satellite to a superior system. The LS920 can be programmed on-line from a superior computer and has a powerful 32-bit processor.

Up to 96 I/O in one basic unit. Robust mechanical and electric construction permits change of modules under voltage.

All modules are galvanic insulated. Disconnectable wire-protected 2,5 mm<sup>2</sup> terminals with secure contacts.

LED´s on the module-panel for indication of status. 48 LED´s each with 3-colour choice and legible text by every LED. Optional placement in object-programming.

*New alarm:* Flashing red light

*Acknowledged alarm:* Fixed red light.

Memory and delay as an ordinary alarm-panel. Alarms can also be wided on the display.

1000 events can be saved in the CCU eventlist.

Digital out/in: Yellow LED for digital out and green for digital in. In case of a conflict there is a red alarm.

The basemodule can be provided with up to 12 pcs I/O modules which are available with the following functions:

<b>MDI-8</b>	8 digital inputs
<b>MPI-8</b>	8 digital inputs (impulse counter)
<b>MDO-4</b>	4 relay outputs
<b>MDO-7</b>	7 relay outputs
<b>MAI-6</b>	6 analog inputs 16-bits resolution
<b>MAO-4</b>	4 analog outputs 12-bits resolution

Display with 4 rows x 20 characters and backlight gives clear information and easy parameter programming. Keyboard with clear commands gives possibilities for an easy-to-use interface. All these man-machine functions will make it possible for every category of staff to control and supervise the plant from the CCU-panel.

By using LS920 You can choose a smaller switch cabinet because the number of components becomes less numerous as LS920 is replacing the complete relay control and the regulators. By that the functions can be changed and extended in the future, which result in a long life and good overall economy.

When rebuilding, renovating or extending a building LS920 can be placed in a separate cabinet beside the existing one. LS920 is not bound to a certain manufacture of valves and sensors.

## Technical specifications

<b>Power requirement:</b>	230V AC 50Hz, 20-40VA
<b>RAM-memory</b>	Up to 1 MB
<b>PROM-memory</b>	Up to 1 MB
<b>Mainprocessor:</b>	32/16 bits
<b>Panelprocessor</b>	8 bits
<b>Battery-backup:</b>	Clock and memory maintenance-free for 10 years
<b>Communication</b>	On line com RS485 Dial-up RS232 max 127 outstations/line
<b>Temperature</b>	0-50°C
<b>Dimensions Panel:</b>	W x H x D, 483 x 132 x 40mm
<b>Dimensions I/O unit:</b>	W x H x D, 485 x 170 x 110mm
<b>CE marked acc. to:</b>	EN 60950:1995 EN 50081-1:1992 EN 50082-1:1997