# FENIKS BB

## Description

Pressure controller is used for managing pressure maintenance unit (DSU) in central heating installations with open expansion vessel and pressure maintenance pump.

It provides the blockade of the pump in cases of extreme low water levels in the expansion vessel and automatic filling up of the expansion vessel and filling up system.

In cases of power break all working parameters are stored, and after regaining the power the automatic mod is resumed. The unit is equipped with RS 485 or RS 232 communication interface and it can be, on request, equipped with M-bus interface which gives the possibilities of exporting all given parameters, measured values and alarms, and possibility of connecting into SCADA system with MODBUS protocol.
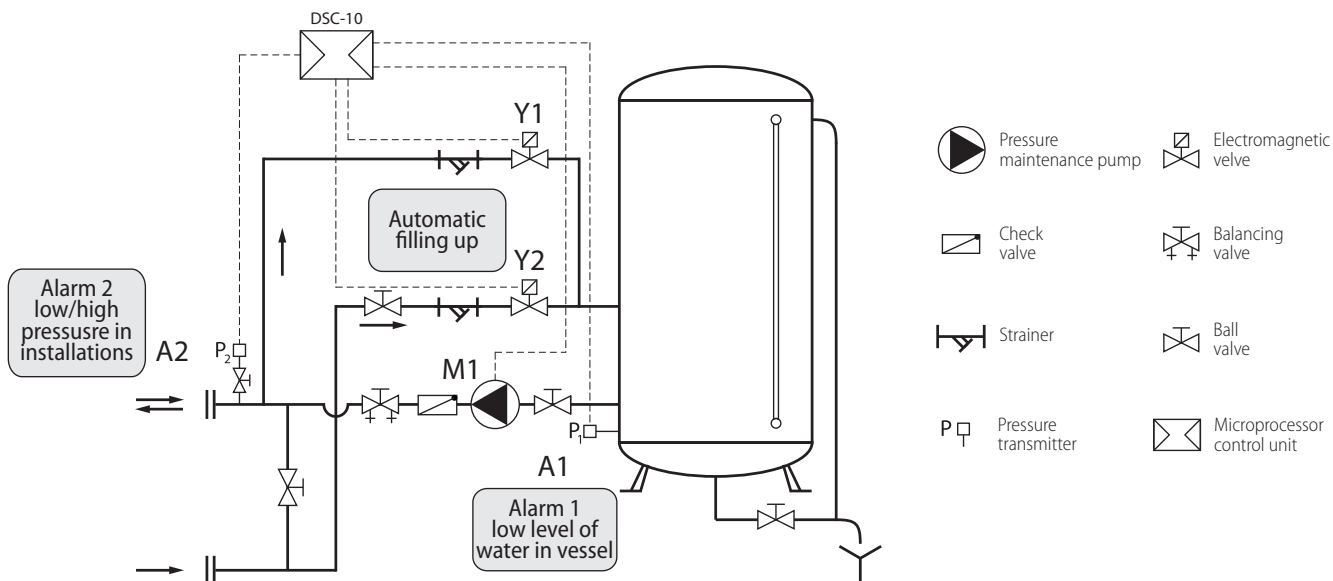
The unit can be modified to match distributor's of heat in district heating technical demands and specifications.
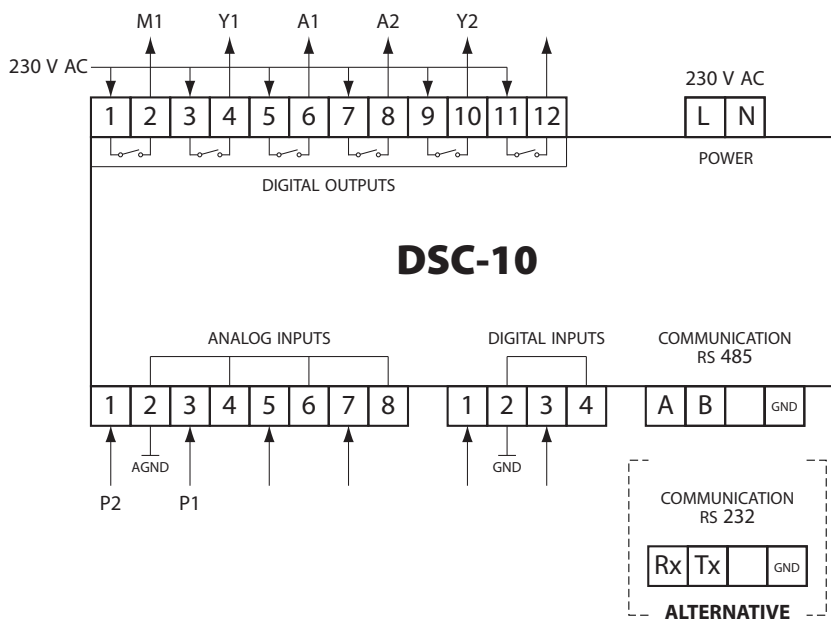


## Technical data

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| **Power:** | 220V AC 50Hz, 4 VA |
| **Display:** | LCD – alphanumeric, 2 x 16 characters |
| **Keyboard:** | 5 functional push buttons |
| **Communication:** | RS 485 or RS 232 and RS 232/M-bus converter(optional) |
| **Analog inputs:** | 4 (0/4-20) mA |
| **Digital outputs:** | 6 SSR 220V / 3A, |
| **Digital inputs:** | 2 (potential-free) |
| **Surrounding temperature:** | (0 - 70) °C |
| **Surrounding humidity:** | (0 - 75) % (without condensation) |
| **Security:** | IP40 (installation into electric cabinet) |
| **Dimensions:** | 155mm x 86mm x 58mm |
| **Installation:** | 35mm DIN rail |

# Application



| | |
|---|---|
| ● Pressure maintenance pump | ⬚ Electromagnetic velve |
| ▱ Check valve | ⟊ Balancing valve |
| ⟙ Strainer | ⋈ Ball valve |
| P ⬚ Pressure transmitter | ⬚ Microprocessor control unit |

# Wiring diagram



# Recommendation

Before disposal the unit must be dismantled into groups of structural components and delivered to authorized waste recycling organizations in order to preserve the environment. Local legislations must be obeyed when disposing of the components

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Feniks BB has implemented and maintains quality and environment management systems in accordance with international standards ISO 9001:2008 and ISO 14001:2004.

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