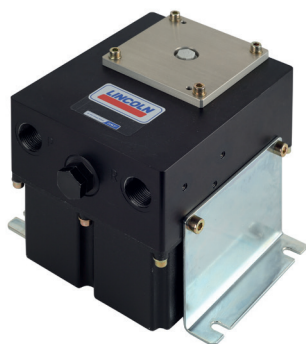


# DPC1 Dual pressure controller

for dual-line lubrication systems



ZPU 08



EMU 3



## Benefits

- Self-learning, i. e. independent setting of the optimum operating pressure
- Suitable as an end-of-line pressure switch unit and also optionally as a controller
- Automated setting of the pressure curves, differential pressure, and absolute pressure.

## Applications

The DPC1 system has been designed for all dual-line systems that use a change-over valve controlled by an end-of-line pressure-switch unit.

It suits applications, in the paper, steel and heavy industries as well as in the beverage industry.

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## System benefits

- The DPC 1 monitors the proper function of the dual-line system with regard to the pump and the change-over valve. Furthermore, it monitors the tube lines for leakages.
- The self-adjusting optimum operating pressure increases the service cycle of the pump, the change-over valve and the metering devices.
- An integrated timer makes it possible to operate a dual-line system without a separate controller. However, in order to use a 3 pulse motor, a motor starter is required.
- The output signal activates the change-over valve.
- The high IP 65 protection rating and shock-proof durability provide good suitability of the device in rigorous environments.

## Energy efficiency

The DPC1 increases the energy efficiency of the lubrication system by matching the system operating pressure to the ambient conditions.

As a result, the pump motor only runs for as long as it is required for pressure build-up. In the case of pneumatically driven pumps, compressed air is conserved.

## System components

The device consists of a housing with integrated control electronics, LCD display, and a membrane keypad. Two electronic pressure transducers are connected to the main-line directly. An optional transistor learning sensor or mechanical limit switch can be connected to the dual-line metering device.



## Models

234-10723-3 End-of-line pressure switch unit  
234-10663-7 Pressure sensor

## System features

Absolute pressure	max. 400 bar
Differential pressure	max. 400 bar
Security	Protected by password
Supply voltage	24 V DC (ranging from 6 V to 27 V)
Overload protection	up to 40 V
Type of protection	IP 65
Monitoring time	1 sec to 99 min 59 sec
Cycle	1 min to 99 h 59 min
Shock resistance	20 g
EMC	Din EN 61000-6-2 and 61000-6-3
Reverse polarity protection	integrated
Operating temperature	-25 to +70 °C
Minimum installation measures without cable glands	100 x 100 x 62 mm
with cable glands	145 x 100 x 62 mm

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