

PRESSURE PULSE DETECTION FOR L210 LUBRICATION SYSTEM



Spraying Systems Co.
Experts in Spray Technology

In many processes it is very important to be able to determine that a certain action has been performed. There are different types of closed loop systems available, but they tend either to be very expensive or difficult to operate. Particularly in a system that involves spray nozzles.

For the system L210 there is a very strong relation between a successful spray pattern and a proper pressure pulse in the line between pump and nozzle. Any type of restriction in the nozzle will affect the pressure pulse, as well as any malfunction in the pump or in the liquid supply lines. Spraying Systems has now developed a pressure pulse detection device that can be monitored via a PLC. It is a very cost effective way of ensuring system integrity when using the Lubrication Spray System L210.

BENEFITS

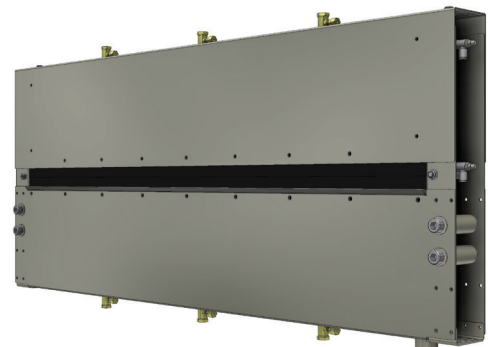
The pulse detection systems are pressure control signal devices connected to a Siemens Logo!

Detection of malfunctions in the L210 system: Monitoring of the functionality and proper operating of nozzle and pumps.

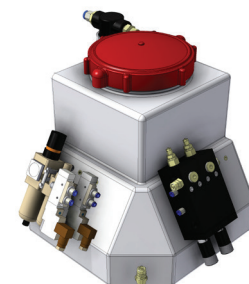
If the spray pulse pressure is too high, too low or the spray pulse is not within the correct time frame, the control unit will generate an alarm. The function is very similar to a low cost closed loop monitoring system.



L210 Spray Check Sensors
(Pressure Pulse Detection)



Lubricator L210



Basic Unit for L210

IDEAL FOR

- Unmanned production of blanks for the steel industry
- Dosing applications in unmanned (fully robotized) production
- Lubrication (coating) of wire in the steel industry
- Applying liquid in bottling operations

PRESSURE PULSE DETECTION FOR L210

SPECIFICATIONS

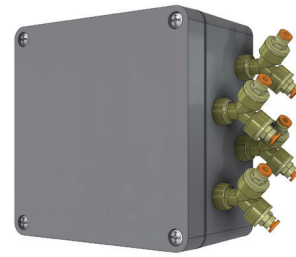
The detection device consists of 2 different parts, a pressure sensor and a circuit board.

An NPN feedback signal is provided when the pulse is within the correct pressure range.

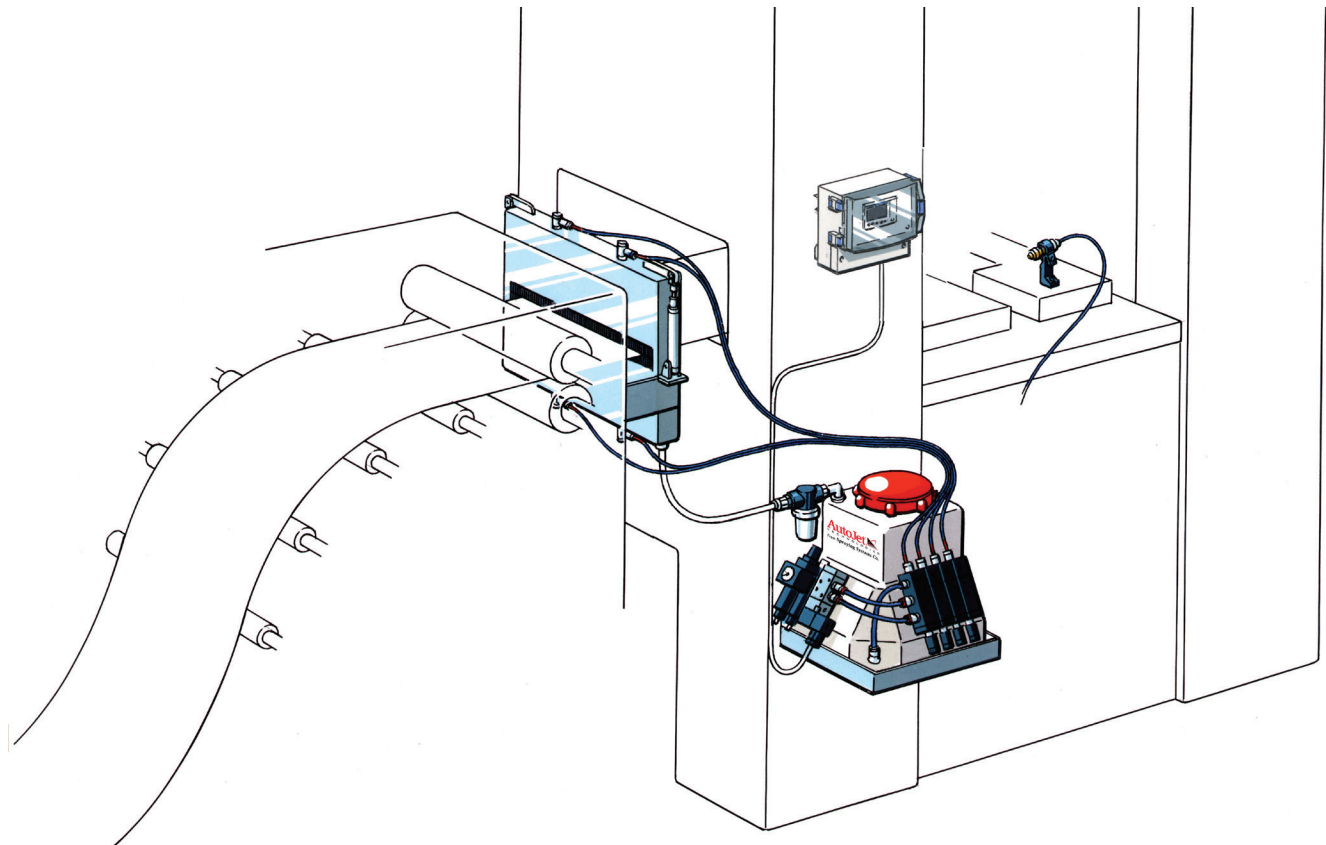
The pressure sensors are fitted into painted steel housing and should be placed in the liquid line between the pump and the nozzle - as close to the nozzles as possible.

The detection devices are equipped with 2 or 4 pressure sensors.

The control unit can be a stand alone unit which only processes the pressure pulse signals or a unit with T100 software control with pressure pulse detection.



Sensor Box



**Contact your local Spraying Systems Engineer at
www.spray.com or www.Multi-Lube.com**



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