

Pressure control LC-FPPU

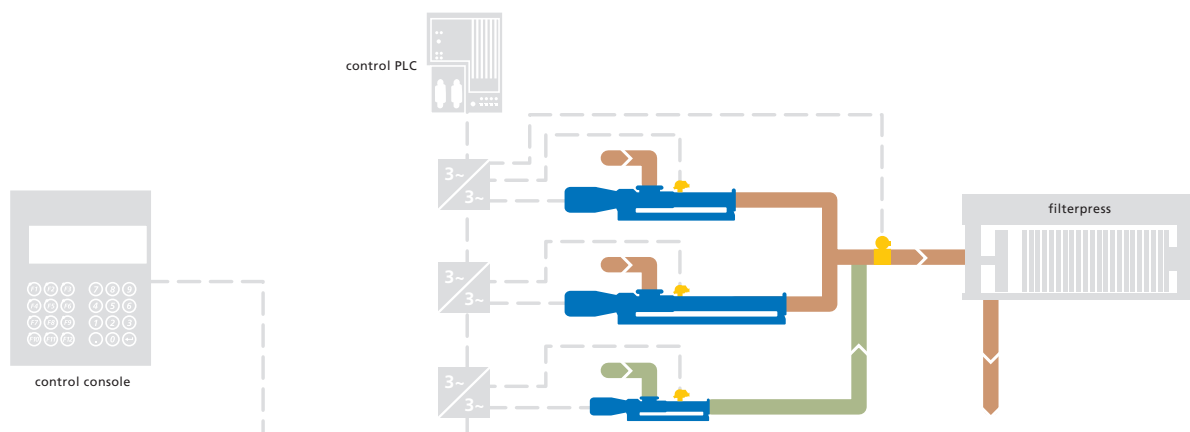
The cost-efficient seepex filter press feeding system

The LC-FPPU pressure control is a cost-efficient system solution for filling filter presses. The control PLC, control console and frequency inverters are connected with each other via a CAN bus.

Via this bus system, the input and output signals of the frequency converters can be used for the control process. The following functions are integrated in the compact control:

Setting of the delivery rate	The delivery rate of the pumps depends on the filtration pressure and is set through a freely programmable characteristic curve.
Integrated prefilling pump	A prefilling pump can be connected for faster filling of the filter press.
Integrated dosing pump	A dosing pump can be connected to dose additional chemicals.
Pressure control	In the final phase of the filling process, the filter press is filled with constant pressure. The reference variable of the pressure control can be set as desired.
Operating and fault messages	Depending on the type of fault, either a warning is issued or the process is switched off. Faults are listed in clear text.
Dry running protection	for protecting the pumping elements rotor and stator against dry running.
Overpressure protection	with freely adjustable shut-off pressure.
Settable parameters	Plant and control parameters such as drive data and limit values can be set. All the entries are password-protected.
Saving the plant-specific characteristic curves	For fast and simple plant setting, the characteristic curves can be saved and retrieved again later on.
Connection to site systems	Connection to a site control system is possible through various bus systems.
Remote data transfer	permits fault diagnosis through a GSM modem controlled from the seepex headquarters.

Process of filter press feeding



Characteristics of the LC-FPPU pressure control

- ~ Simple operation through various display pages
- ~ Different operating languages can be set
- ~ Membrane keyboard for parameter entry and switching the control functions
- ~ Storage of the control parameters in the user ROM that is not affected by power loss
- ~ Very low wiring effort due to internal bus system



Control console, frequency converters and control PLC are connected with each other via a CAN bus.

Technical Data

Structure:	PLC with integrated LC-display
Supply:	24V DC
Power consumption:	max. 20W
Operator display:	4 lines of 20 characters each Membrane keyboard with 24 keys 12 keys with LEDs Protection class IP65
Dimensions:	180 x 145 x 35 (HxWxD)
Installation:	in the control cabinet door

Control PLC	
Supply:	24 V
Power consumption:	20 W
Command cycle time:	approx. 1.6µs
Memory structure:	350 kByte SRAM 512 kByte FlashPROM
Communication:	via internal CAN bus
Buffer battery:	Lithium battery 3V / 950 mAh, life cycle approx. 5 years
Dimensions:	120 x 78 x 75 (HxWxD)
Installation:	on mounting plate