## seepex.com all things flow

## Pressure control PRCL

The plant pressure is kept constant by changing the pump speed. When an impermissible value has been reached, a fault message is triggered and the process is switched off. The basis is a programmable logic controller with an integrated display and control unit. The following functions are integrated in this compact control:

Dry running protection	for protecting the pumping elements rotor and stator against running dry.		
Overpressure protection	with adjustable shut-off pressure.		
Process factor display	Process factors such as plant pressure, pump speed or operating hours are shown on the display.		
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.		
Settable parameters	Plant and control parameters such as drive data and limit values can be set. All the entries are password-protected.		
Connection to site systems	Connection to a site control system is possible through various bus systems.		
Control analysis through data communication	permits fault diagnosis through a GSM modem controlled from the <b>seepex</b> headquarters.		

Process of pressure control



facilities to be provided by the customer

## Characteristics of the seepex PRCL pressure control

- Simple operation through various display pages
- Different operating languages can be set
- Membrane keyboard for parameter entry and switching the control functions
- Integrated protection function of the pump

- Storage of the control parameters in the user ROM that is not affected by power loss
- Additionally integrated resettable operating hours meter

Lithium battery 3V / 950 mAh, life cycle approx. 5 years

~ Simple and fast fault analysis



Control device with various display pages permits simple and user-friendly operation

## **Technical Data**

Structure:	PLC with integrated LC-display	Processor	
Supply:	24V DC	Command cycle time:	approx. 0.8µs (with 70% bit and 30% analogue processing)
Power consumption: Front:	max. 20W LC-display: 4x20 characters Multilingual display Membrane keyboard with 26 keys 10 keys with LEDs Protection class IP65 (front)	Memory structure: Signals:	User RAM 300 kByte System PROM 448 kByte FlashPROM User PROM 1024 MByte FlashPROM 8 digital inputs with 24 V DC rated voltage
Dimensions:	120 x 153 x 42,2 (HxWxD)		4 analogue inputs for the voltage range of from -10V DC to +10V DC
Installation:	in the control cabinet door		8 digital outputs with 24V DC rated voltage, maximum load 500 mA
			4 analogue inputs for the voltage range of from -10V DC to +10V DC
		Expansions:	integrated CAN interface for adaption to additional customer demands
		Communication:	Serial RS232 interface for connecting a programming device or a modem for service purposes. A CAN interface can be used for additional expansions.

**Buffer battery:**