

DürrTronic



Dürr Technik goes digital



The concept

Intelligent, interconnected and interactive – these concepts of Industry 4.0 add value to the complete supply chain from manufacturers to end customers.

We, at Dürr Technik are moving towards integrating small compressors, used in a variety of decentral applications, into larger control and monitoring systems. As the first step, we have developed the DürrTronic, a control and monitoring system for our range of compressor stations.

DürrTronic

Features and benefits

Higher product reliability

With DürrTronic the functionality of other components (e.g. valves or motor) will be better and more reliable.

Enhanced lifetime

With DürrTronic the lifetime of the compressor station increases due to reduction of switching cycles of components.

24/7 Live-Monitoring

DürrTronic evaluates the recorded data and warns at risky operation conditions of the compressor station.

Preventive service

DürrTronic shows you service notifications at the display when exchanging spare parts like filter or friction pairing. Environmental conditions are intelligently considered

Increase of efficiency

With DürrTronic the switching cycles will be minimized and condensate drain on demand will be enabled.



How does it work?

- The DürrTronic accepts input signals from the motor and valves in a compressor station, and monitors a number of operating parameters - such as hours run, number of start / stops etc.
- It also ensures timely actuation of the unloading and condensate drain valves.
- As a parallel function, simple indicators are calculated – such as station health, time to filter change and time to major service intervals.
- The service steps are thereafter reported over the display to the user, who can ensure timely service.

DürrTronic - Features

Electronic control unit for monitoring and operating solenoid valves

Service reminders
enables a higher
product reliability

Monitoring allows a
simplified diagnosis

Warning for switching
cycles alerts before a
breakdown

Better control of
solenoid valves – lesser
cold starts and related
problems





Technical data

Wide range voltage (100-240V AC) power input

Power supply through the pressure switch.

1 × Motor impulse (input)

2 × Solenoid valve impulse (output)

Use of 24V solenoid valves as standard.

Monitoring of On/Off cycles per hour

- stage 1 warning if cycles > 20
- stage 2 warning if cycles > 30

Monitoring of compressor run time

- alert for filter change after 1500 hour
- alert for friction pairing components after 5000 running hours
- initial warnings 100 hours beforehand

Controlled mode solenoid valve operation – condensate drain valves are activated only when the compressor is running.