

Høglund SCC

Seismic Compressor Control System

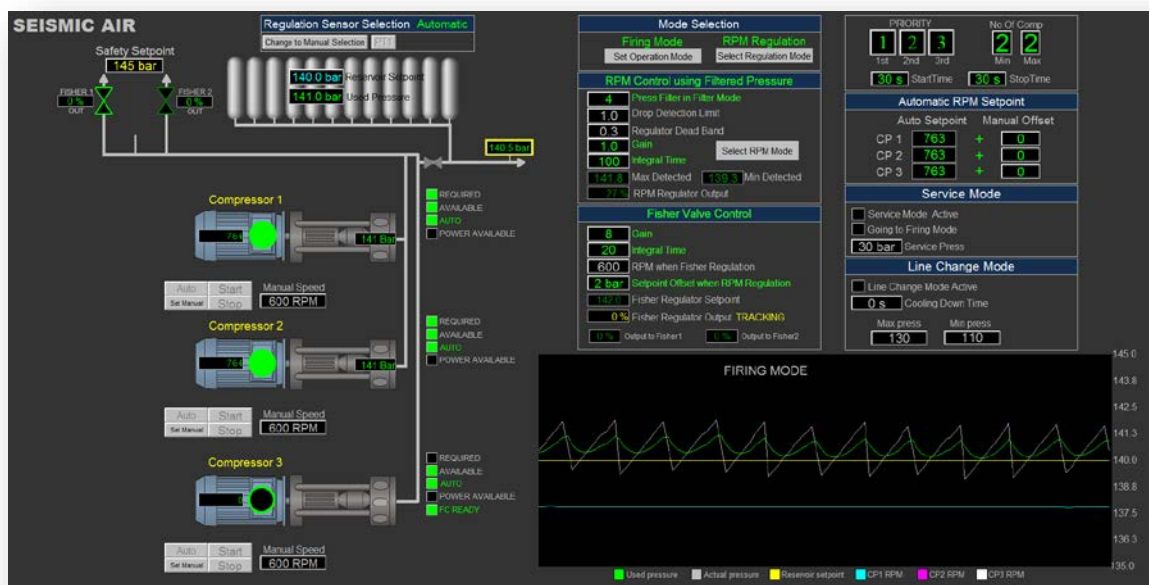
Controls multiple screw compressors to supply seismic gun arrays. Is developed to optimize compressor utilization and to reduce power consumption as well as noise levels onboard. All this is accomplished while operability, safety and fallbacks in case of equipment failure are maintained in a good manner. To ensure that pressure is always delivered to gun arrays, both rpm control of the compressors as well as Fisher atmospheric release valves are used to keep pressure within operational limits.

Benefits

- Stable supply pressure
- Reduced power consumption and noise
- Stable grid load
- Easy mode changes
- Seamless integration to HMA IAS

Functions

- Controls start and stop of compressor
- Capacity control by rpm regulation
- Min no of compressors to run based on demand
- Cascade Fisher valve regulation
- Multiple control locations
- Selectable pressure sensor process value
- Critical rpm avoidance by speed offset between compressors



Proven concept, reliable hardware

The CCS is developed using standard ABB hardware components available worldwide.

Easy debugging and troubleshooting

By utilizing the GMR HMI software with all it's troubleshooting capabilities.

Playback

As the system is based on HMA concept, it comes with data logging of all process variables every second.

Remote connection

If remote connection option is installed, HMA can logon. Generally 95% of all problems can be solved using remote connection, reduces MTTR (Mean Time To Repair) as well as having reduced service and travel costs.

Seamless integration

By selecting a HMA control system for your equipment you will be able to mix and match with other HMA solutions.

Safety valve function

Integrated into the system is a function that opens Fisher valves if pressure exceeds safety limit.

Operation modes

System can operate in three main modes based on operational needs.

RPM mode

Speed of compressors are controlled to give right amount of air as required by gun array.

Fisher mode

Speed of compressors is kept constant and reservoir pressure is controlled by releasing air to atmosphere through analog controlled Fisher valves. Valves can operate single, parallel or in cascade mode.

Line Change mode

Start/stop of compressors according to min/max pressure setting. Running minimum 1 compressor and control pressure with Fisher valve.

Marine approvals

DNV GL

ABS

BV

LR

Environmental specs

Air 0°C-45°C

Water ingress protection field equipment IP54

Electrical

Supply voltage 230V AC or 24VDC

Models	Type of system
SCC001	Compressor control system running single CPU
SCC002	Compressor Control system running 2 separate CPU's
SCC003	Compressor Control system running redundant CPU
Other configurations available on demand. Please contact HMA for an offer	