NovoCon® S
Linking hydronics to Building Automation to save time and money during construction and operation

Highlights:
- Digital connectivity with BACnet and Modbus
- I/O capabilities and ChangeOver® connectivity
- Hydronic balancing performed electronically
- No manual adjustment required at the valve and actuator, everything is performed electronically via fieldbus
- Faster and reliable integration by using specialised commissioning tool
- Remote status and alarms help verify and identify hydronic and/or connectivity problems
- Building data available for trending and predictive maintenance

NovoCon® S is a smart digital actuator, specifically designed for use in combination with the Pressure Independent Balancing Control Valve type AB-QM in sizes from DN 10-32. The combination of NovoCon® S actuator with AB-QM valve is used to control water supply to fan coil units, radiant panels, induction units, heaters, small re-heaters, re-coolers, AHU’s and other terminal units for zone control, in which hot/cold water is the controlled medium. NovoCon® S provides a transparent view of hydronic settings, hydronic balancing operational functionality, all via a fieldbus connection. Due to its accuracy, remote functionality and flow indication features, it accelerates the commissioning process, allows easy maintenance, improves indoor comfort, saves energy costs and enables energy monitoring at a room level without the need for an energy meter.

General features:
- Auto MAC addressing for BACnet
- Auto baud rate detection
- Intrinsic alarm reporting for BACnet
- Valve blockage alarm
- Broken wire detection on analog control and ground signal

Together with AB-QM
The AB-QM valve and the NovoCon® S actuator unleash many innovative features and possibilities to utilise the building’s BMS to its full potential. NovoCon® S adds value throughout a building’s lifetime: during installation and commissioning, system integration, operation and maintenance. The digital actuator connects your heating or cooling system to the Building Management Systems (BMS) and adds new levels of hydronic balancing, control and remote functionality. This results in time savings during installation, remote commissioning and fine tuning, access to system data and remote identification of valve blockages or installation errors. In essence the digital actuator replaces multiple on-site visits with remote control of the system from the comfort of your office.

4-pipe change over application
Combined with the ChangeOver® the NovoCon® S offers a unique solution for controlling both the AB-QM valve and a 6-port motorised ball valve that performs a diverting function between two water circuits in 4-pipe changeover systems. The AB-QM balances the flow independently for heating and cooling and the NovoCon® S bus actuator controls the flow. Connectivity to the ChangeOver® valve are executed through the NovoCon® S. There is only one device on the fieldbus representing status and alarms from both devices.

NovoCon® I/O functionality
NovoCon® I/O capabilities reduce the amount of controllers used, and through that, reduces the cost of the building automation system. NovoCon® S is able to connect to other devices, e.g. temperature sensors, room thermostats, window contacts, CO₂ sensors, humidity sensors, fan speed control, 0-10V actuator etc. Each NovoCon® S has an analog output, an analog input and two PT1000 (resistance) inputs.
Connect with us online to learn more

At Danfoss, we engineer the most innovative HVAC solutions of tomorrow ... today. We do this by focusing on solutions that reduce climate impact while contributing to the productivity and well-being of the people that work with and rely on our services all over the world.

To learn more about the NovoCon® S, the AB-QM valve or the Danfoss organization, please visit our website at: novocon.com

Introduction to the new NovoCon® S digital actuator
Scan the QR code and see how we connect experience and innovation.

Danfoss A/S · Heating Segment · Ulvehavevej 61 · 7100 Vejle · Denmark
Tel.: +45 7488 8500 · Email: heating@danfoss.com · www.heating.danfoss.com

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