Claims

1. A system comprising:

a control and supply unit (1) for an actuating device (2) of a choke (3), a valve, a blow-out preventer or another device applied in the field of oil and natural gas production, said unit (1) comprising:

an auxiliary power supply (4); and

an electrical connection to exchange data and to supply voltage, wherein the electrical connection comprises a communication interface (6) to couple to a field bus (10) and a voltage supply connection (7) to couple to a voltage supply line (11);

wherein

the control and supply unit is implemented separately of the actuating device; and

the communication interface (6) and the voltage supply connection (7) are formed on a supply and communication assembly (14) comprising connections to supply electric power to a motor control unit (13), the auxiliary power supply (4) and/or one sensor unit of the actuating device (2); and

the supply and the communication assembly comprises bus connections (17, 18) for communication with and/or control of the auxiliary power supply (4), the motor control unit (13) and/or the sensor unit of the actuating device (2).

2. The system of claim 1, wherein the unit (1) further comprises a unit housing (9), which is releasably secured to the actuating device (2).

3. The system according to one of the preceding claims, wherein the field bus (10) is a CAN bus.

4. The system according to one of the preceding claims, wherein the field bus (10) and the voltage supply line (11) couplings are implemented as separate connections.

5. The system according to one of the preceding claims, further comprising a second control and supply unit coupled to the actuating device (2).

6. The system according to one of claims 2-5 wherein at least the communication interface (6), the auxiliary power supply (4) and the motor control unit (13) are arranged in the unit housing (9).

7. The system according to claim 1 wherein the supply and communication assembly (14) comprises an earthing terminal (19) connected at least to the auxiliary power supply (4) and/or the motor control unit (13).

8. The system according to one of claims 2-7 wherein an inert gas atmosphere is provided in the unit housing (9).

9. The system according to one of claims 2-8 wherein the unit housing (9) comprises a plug connection device (20), which is accessible from outside, for the communication interface (6) and the voltage supply connection (7).

10. The system of claim 1 wherein the unit (1) is connected to a submarine control module (21) for communication and/or voltage supply.

11. The system of claim 1 wherein the auxiliary power supply is rechargeable.

CLAIMS

1. A control and supply unit for an actuating device of a choke, a valve, a blow-out preventer or some other device applied in the field of oil and natural gas production, said unit comprising at least an auxiliary power supply, and a connecting means used for an exchange of data and for the purpose of voltage supply, the control and supply unit comprising, as a connecting means, a communication interface for connecting thereto a field bus and a voltage supply connection for connecting thereto a voltage supply line, wherein the communication interface and the voltage supply connection are formed on a supply and communication assembly;
the supply and communication assembly comprises at least connections for supplying electric power to a motor control unit, the auxiliary power supply and/or at least one sensor unit of the actuating device; and
the supply and communication assembly comprises bus connections for communication with and/or control of the auxiliary power supply, the motor control unit and/or the sensor unit of the actuating device.

2. A control and supply unit according to claim 1, wherein the auxiliary power supply is rechargeable

3. A control and supply unit according to claim 1, wherein the unit is implemented separately of the actuating device.

4. A control and supply unit according to claim 1 or 2, wherein the unit comprises a unit housing, which is releasably secured to the actuating device.

5. A control and supply unit according to one of the preceding claims, wherein the field bus is a CAN bus.

6. A control and supply unit according to one of the preceding claims, wherein the connections for the field bus and the voltage supply line are implemented as separate connections.

7. A control and supply unit according to one of the preceding claims, wherein the actuating device has associated therewith two units for reasons of redundancy.

8. A control and supply unit according to claim 3, wherein at least the communication interface, the auxiliary power supply and a motor control unit are arranged in the unit housing.

9. A control and supply unit according to one of the preceding claims, wherein the supply and communication assembly is provided with an earthing terminal connected at least to the auxiliary power supply and/or the motor control unit.

10. A control and supply unit according to claim 3, wherein an inert gas atmosphere is provided in the unit housing.

11. A control and supply unit according to claim 3, wherein the unit housing is provided with a plug connection device, which is accessible from outside, for the communication interface and the voltage supply connection.

12. A control and supply unit according to one of the preceding claims, wherein the unit is connected to a submarine control module for communication and/or voltage supply.

13. A control and supply unit substantially as hereinbefore described having reference to either of Figures 1 or 2.

14. A subsea installation comprising a control and supply unit according to any preceding claim.