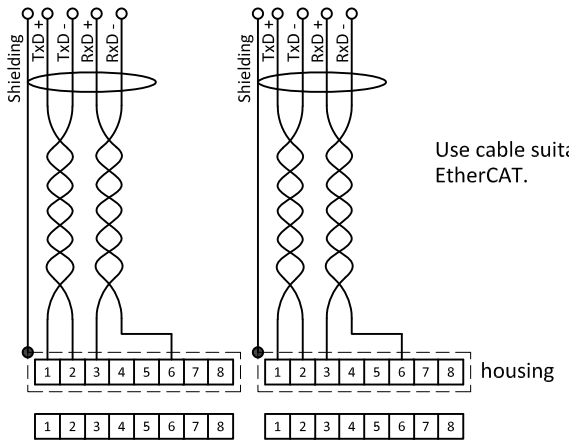
Bronkhorst®

doc.no.: 9.16.137E
date: 27-02-2018

EtherCAT®

MBC3 Hook-up diagram
ML Series instruments

EtherCAT connection



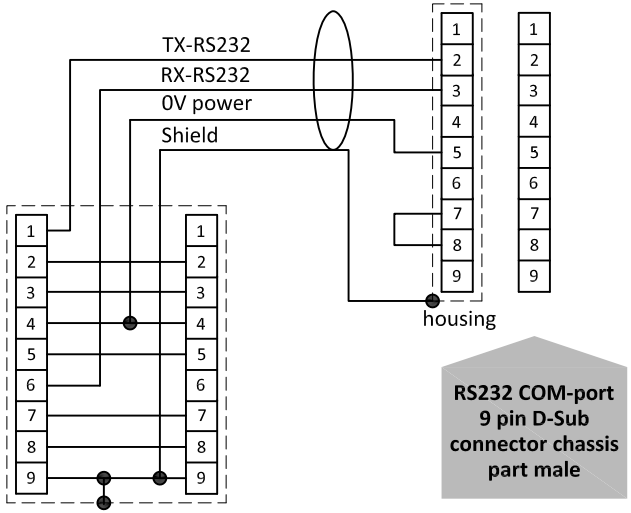
Use cable suitable for EtherCAT.

RJ45 modular jack chassis part female

C

RJ45 modular jack chassis part female

RS232 connection

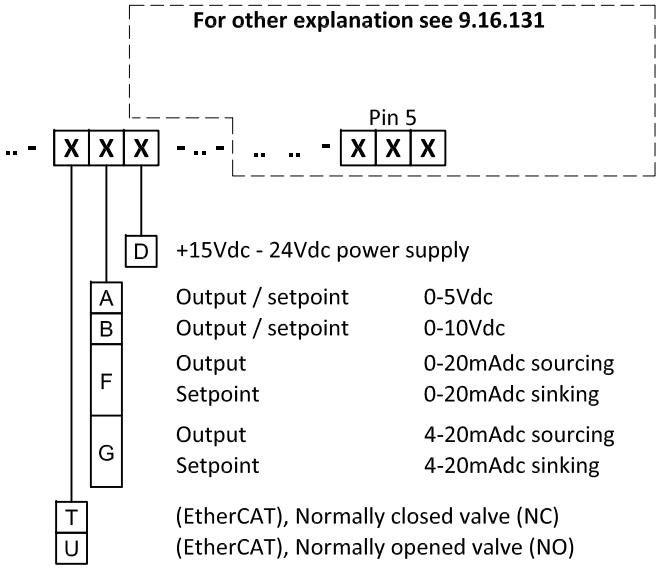


RS232 COM-port 9 pin D-Sub connector chassis part male

T-adapter cable 7.03.366

Model key explanation

For other explanation see 9.16.131

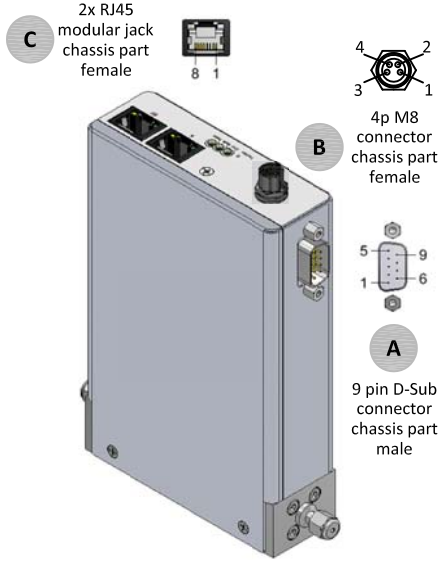


+15Vdc - 24Vdc power supply

Output / setpoint	0-5Vdc
Output / setpoint	0-10Vdc
Output	0-20mAdc sourcing
Setpoint	0-20mAdc sinking
Output	4-20mAdc sourcing
Setpoint	4-20mAdc sinking

(EtherCAT), Normally closed valve (NC)
(EtherCAT), Normally opened valve (NO)

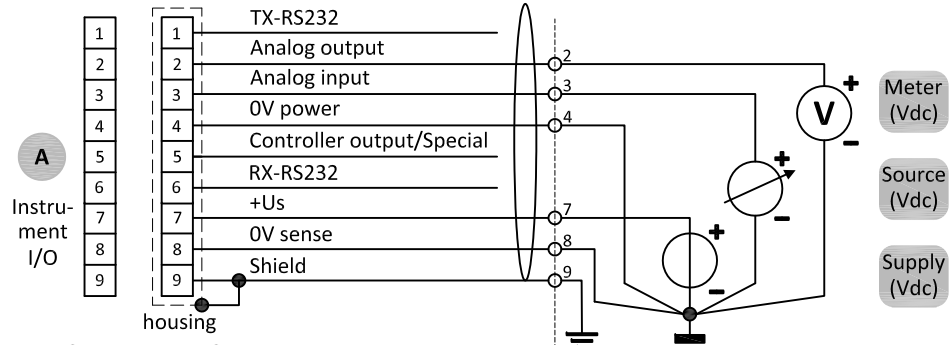
C 2x RJ45 modular jack chassis part female



4p M8 connector chassis part female

9 pin D-Sub connector chassis part male

Note:
For information about the optional **B** "Valve/Actuator" connector.
See doc.nr. 9.16.131 for more details.

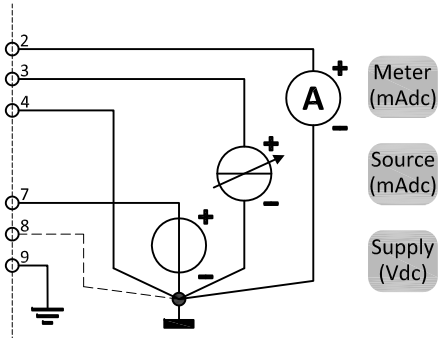


9 pin D-Sub connector chassis part male

9 pin D-Sub connector cable part female

Note:
0V power (pin 4) **and** 0V sense (pin 8) should be separately connected to the 0V terminal at the power supply.

Analog operated 0-5 or 0-10Vdc



Note:
In analog mode with 'mA signals' Pin 8 (0V sense) does not need to be connected. The instrument's operation will not be effected in case Pin 8 is already hooked-up

Analog operated 0-20 or 4-20mAdc

Note:
Do not connect an external valve to instruments, set as meter.

Note:
When using a field bus or RS232, it is not possible to operate the instrument by using the setpoint signal of the analog D-sub connector without changing the value of parameter ''control mode''. See doc.nr. 9.17.023 for more details