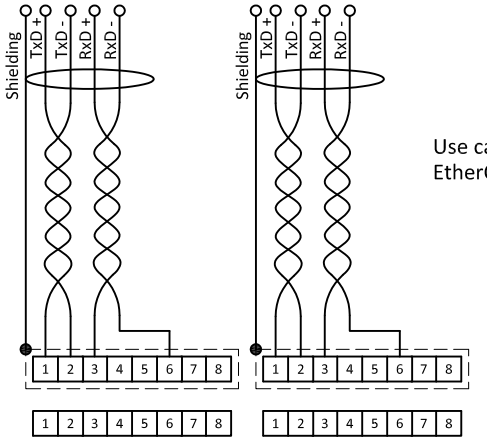
Bronkhorst® HIGH-TECH

doc.nr.: 9.16.124A
datum: 07-04-2015

EtherCAT®

MBC3 Hook-up diagram
Multibus instruments
Laboratory style

EtherCAT connection

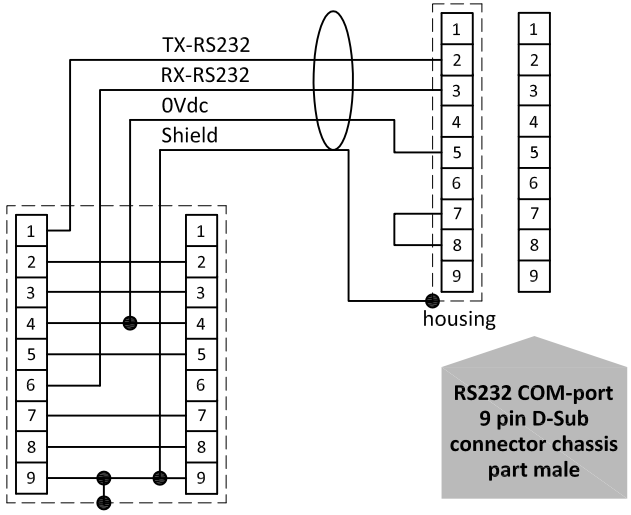


Use cable suitable for EtherCAT

RJ45 modular Jack

RJ45 modular Jack

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 9.16.118

Option: Pin 1&6 X X - Pin 5 X X X

or

.. - X X X - .. - X X - X X X

A 1 V — Default 0..10Vdc Controller output.

A — Default RS232.

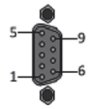
A — Analog setpoint mode
D — Digital setpoint mode

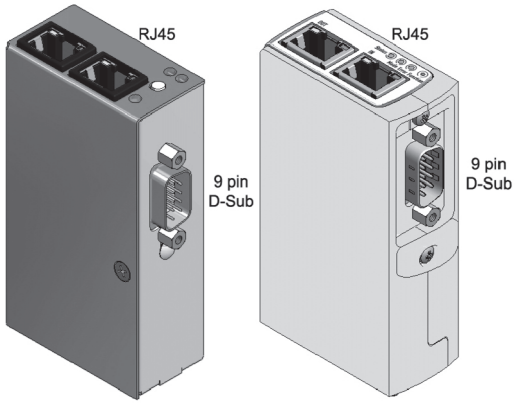
D — +15Vdc ... 24Vdc power supply

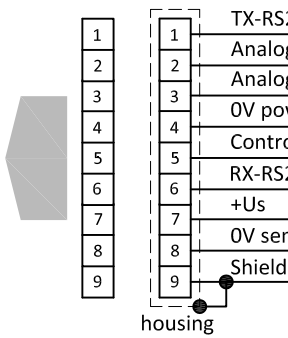
A	Output / setpoint	0...5Vdc
B	Output / setpoint	0...10Vdc
F	Output	0...20mAdc sourcing
	Setpoint	0...20mAdc sinking
G	Output	4...20mAdc sourcing
	Setpoint	4...20mAdc sinking
T	(EtherCAT), Normally closed valve	
U	(EtherCAT), Normally opened valve	

2x RJ45 connector chassis part female

9 pin D-Sub Connector chassis part male

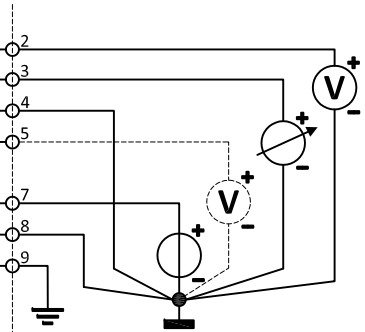






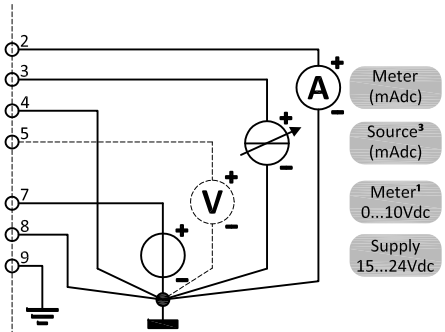
9 pin D-Sub connector chassis part male

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:
1) Check model key for custom pin 5 IO configuration. (Default = -A1V- = 0...10Vdc.)
2) Check model key for custom BUS configuration. (Default = -xA- = RS232)
3) Check Model key for analog or digital setpoint mode. (-Ax- = analog, -Dx- = digital)
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.
Do not connect an external valve to instruments, set as MFM or EPM.