

- AM-series module power supply unit
- USB communication interface
- RS-232 communication interface
- Fast configuration
- Galvanic insulation USB/RS-232



## PRODUCT FAMILY

AM : Analog module is a programmable signal conditioner with integrated advanced control system.

BC : Bus Coupler is a USB interface which handle communications of multiple modules making possible to provide software traceability (Tfx-Lab or other).

CC : USB Cable Coupler for easy configuration of analog modules dedicated to process control.

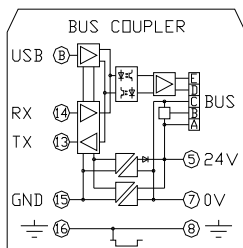
### ARTICLE NR

Model	Product reference	Description
203.AM	AM	Analog Module
203.PS	AM.PS	Analog Module with programed sequence
203.PU	AM.PU	Pre-programed Analog Module (see dedicated <a href="#">form</a> )
204.BC	BC	USB ou RS232 fixed bus coupler, for data acquisition purpose
204.CC	CC	USB cable coupler for configuration

## DESCRIPTION

The Bus Coupler is an interface for analog modules in stationnary facilities. Two kind of connections are possible, either by USB (FTDI) either by 3-wire RS-232. The bus is transmitted from one module to another by the 5-pin connector on the side of the casing. The installation can be extended according to needs with multiple AM modules if necessary.

## CABLING



Installation procedure:

- Connect the power supply between 24V and 0V
- Connect the bridgehead to the PC
- Connect the analog modules

Analog modules are powered through the bus.

Grounding is ensured by the DIN rail.

## POWER SUPPLY

### INPUT ELECTRICAL SPECIFICATIONS

Name	Description	Min	Typ	Max	Unit
$U_{in}$	Input voltage	18		30	$V_{DC}$
$I_{in}$	Consumption (without modules)		TBD		mA

- Protected against shortcuts.

**INSULATION**

Communication (USB or RS-232) side is insulated from PLC side (bus).

- USB/RS-232 with respect to the bus : 500 V<sub>DC</sub>

**COMMUNICATION**

RS485, half Duplex, with proprietary protocole. PC is bus master, line is dedicated to PC when PC is active, otherwise it waits and reads the data traveling on the bus.

Name	Description	Min	Typ	Max	Unité
B <sub>rate</sub>	Baudrate		38'400		bps
T <sub>1</sub>	Active hold time after PC writing		TBD		µs

**CONNECTORS FOR RS-232**

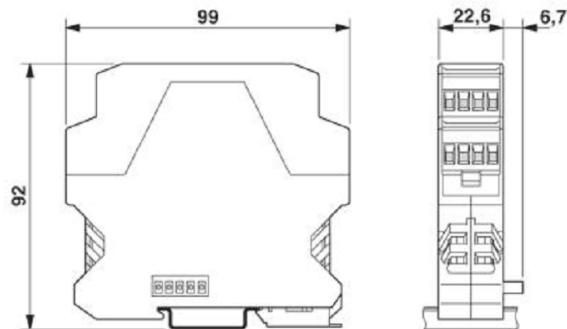
PIN	Name	Description	Broche sub-D 9p f
14	RX	Input Communication	3
13	TX	Output Communication	2
15	GND	0V	5
16	Ground	Continuité du blindage	Blindage

RS-232 to be ordered separately!

**CONNECTOR FOR USB**

USB type B plug

**SIZE**



**CONTENT**

- 1 204.BC bus coupler
- 1 USB A-B cable, 1.5m length

**ACCESSORIES**

**RS-232 CABLE**

- On demand length in dm (xxx)
- Female SUB-D connector - 9 pin on PC side
- Crimped wires on module side (4 wires : RX, TX, GND, Ground)

Reference

1.B xxx R.L

TFX SA reserves the right to modify design and details at any time without warning.