

Communication Adapter

Datasheet PRA_COMx



Scope of Delivery

- Inline adapter with fixed M8-Connector (sensor side) and open ends (host side)

Applications

The adapter is designed to be used as a communication adapter for our Sensors with UART interface and internal pullup resistors (see “Compatibility”). The adapter delivers standard RS422/485/232 physical layer (depending on version).

The adapter offers the possibility to configure the sensor via remote connection or read the sensor values digitally. Additionally, the analog sensor signal is also available. Parallel usage of digital communication and analog read-out is not recommended due to crosstalk and lowers the sensors analog output performance.

Technical Data



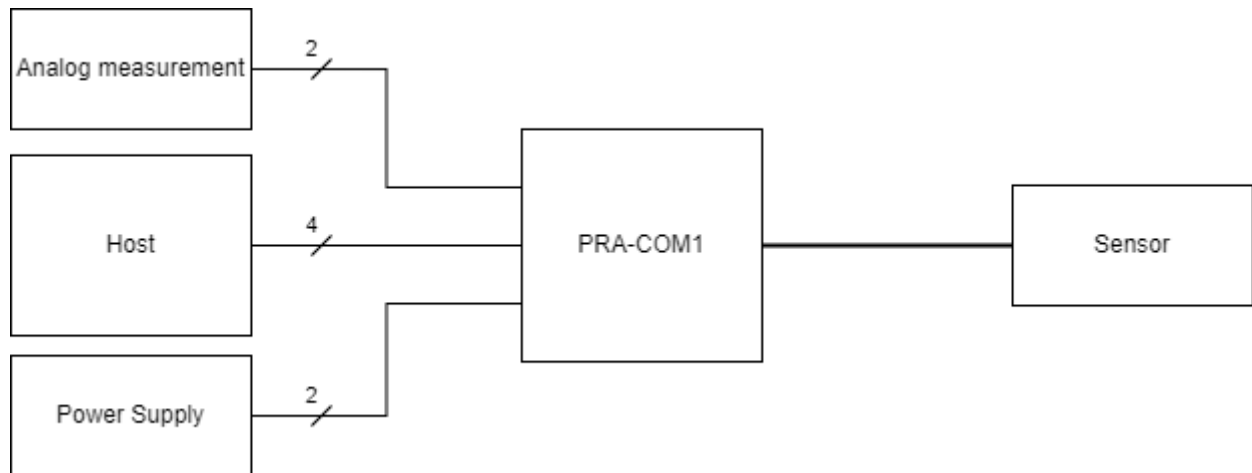
Size (excl. cables) (ca.)	120 x 30 x 20 mm ³
Weight (overall)	ZZ g
Material	PUR, PVC
Sensor cable length	0,3 m
Host cable length	2,0 m
Power consumption	<1 W
Connector Host	bare ends
Connector Sensor	M8, female, 5 pin, b-coded
Power Supply line voltage	6 - 30 V (depending on Sensor !)

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PRA_COMx-COM1 (RS422/485, dual simplex)

The adapter uses as the physical layer RS422/485 with dual simplex configuration, i.e. one differential pair as Host-to-Sensor dataline, one differential pair as Sensor-to-Host.



The open ends are to be connected on host side as follows:

Cable color	Function
Brown	Positive supply voltage
Blue	Ground
Gray	Analog output signal
Yellow	Z (Rx-) (*)
Green	Y (Rx+) (*)
Pink	A (Tx+) (**)
White	B (Tx-) (**)

(*): Rx as seen from host side – sensor to host

(**): Tx as seen from host side – host to sensor

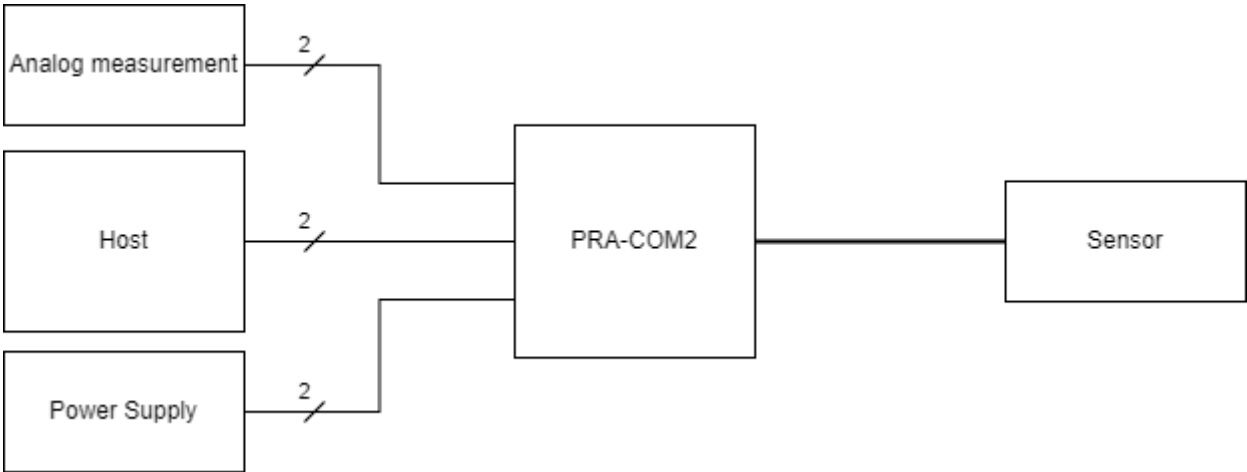
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PRA_COMx -COM2 (RS232)

The adapter uses as the physical layer RS232.



The open ends are to be connected on host side as follows:

Cable color	Function
Brown	Positive supply voltage
Blue	Ground
Gray	Analog output signal
Yellow	Not connected
Green	Tx (**)
Pink	Rx (*)
White	Not connected

(*): Rx as seen from host side – sensor to host

(**): Tx as seen from host side – host to sensor

Ordering Code

		PRA_COMx	-	COM1
Type				
PRA_COMX	Communication Adapter			
Side A				
COM1	RS422/485, dual simplex			
COM2	RS232			
			Core Product Range	

Compatibility

The PRA-COMx adapters are designed to be used with the following sensor configurations :

DST-xxxx-xxx-xxxx-12/24/9X-xx-xx-PUSE