

Communicator™ RS-232/422/485

With the Anybus Communicator RS-232/422/485 you can connect your non-networked device to any major fieldbus or industrial Ethernet network. The Communicator performs an intelligent conversion between the RS-232/422/485 protocol of the automation device and the chosen industrial network. This compact gateway consumes very little space in a switching cabinet and is easily mounted on a standard DIN rail.



Typical Industries



In-short

Anybus Communicator with a configurable serial RS-232/422/485 interface to fieldbus and Industrial Ethernet.

Network:

CANopen
CC-Link
CC-Link IE Field
ControlNet
DeviceNet
EtherCAT
EtherNet/IP
EtherNet/IP 2-port
FIPIO
Interbus
Modbus Plus
Modbus RTU
Modbus TCP
PROFIBUS
PROFINET IO

Part No:

AB7003
AB7008
AB7077
AB7006
AB7001
AB7061
AB7007
AB7072
AB7011
AB7012
AB7002
AB7010
AB7028
AB7000
AB7013

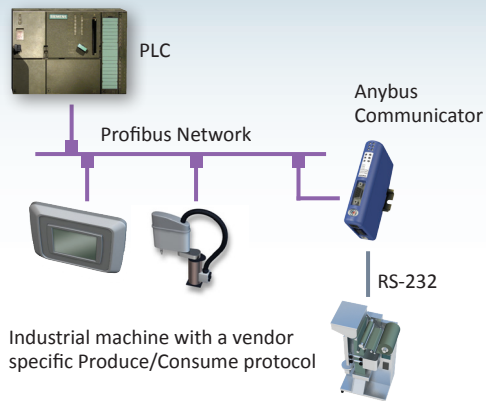
Optional accessories

USB-RS232 configuration adapter
Part No: 019570

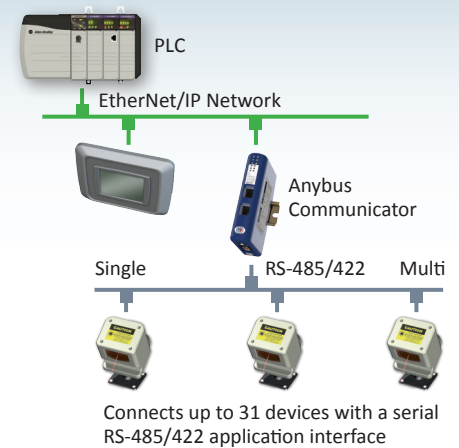


HMS provides a full 3 year product guarantee

APPLICATION EXAMPLE SINGLE-DROP



APPLICATION EXAMPLE MULTI-DROP



Features and benefits

- Build your own RS-232/422/485 based protocol in a graphical environment in just a few minutes
- Proven and trusted intelligent gateways providing unrivaled flexibility and functionality
- No hardware or software changes are required for the connected automation device
- Compatible with PLC's from leading manufacturers such as Siemens, Rockwell, Schneider Electric etc.
- Complete protocol conversion performed by the Communicator, no PLC function blocks required
- Handy Save/Load function means a completed configuration can be re-used for many other installations
- Included "Anybus Configuration Manager" with flexible serial frame building capabilities
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates the need for external switches
- Global free technical support and consultancy
- See www.anybus.com for application notes and instruction videos on how to configure the gateway

Anybus Configuration Manager software

Anybus Configuration Manager supports all network versions of the Communicator.

This Windows™ based software has an easy-to-use user interface and requires no programming.

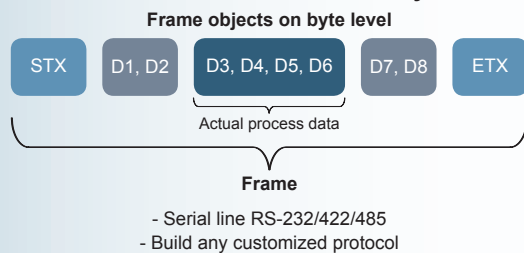
For industrial devices with a serial RS-232/422/485 interface, HMS makes it possible to configure almost any Produce/Consume, Request/Response or simple ASCII protocols with its flexible visual serial frame building method.

Anybus Configuration Manager can be used to configure additional protocols such as DF1, ASCII or CAN based protocols.

TECHNICAL SPECIFICATIONS

Communicator RS-232/422/485		
Protocol	Configurable RS-232/422/485 based produce/consume, query/response ASCII	
Max stations	31 (with RS485/422)	
Baud rate	1,2-57,6 kbit/s	
Physical standards	RS232/422/485	
Technical Details		Standard
Weight	150 g, 0,33 lb	
Dimensions (L-W-H)	120*75*27 mm, 4,72*2,95*1,06"	
Protection class	IP20, NEMA rating 1	
Enclosure material	PC ABS, UL 94	
Installation position	Any	
Mounting	DIN rail (35*7,5/15)	EN 50022
Certifications		
UL	File number: E203225	UL 508 Ind. Cont. Eq.
Hazardous Locations	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ISA 12.12.01
CE	2004/108/EC	EN 61000-6-4 EN 61000-6-2
Electrical Characteristics		
Power	24 VDC +/- 10 %	
Current consumption	Max 300 mA, Typical 100 mA	
Hardware Characteristics		
Reverse voltage protection	Yes	
Short circuit protection	Yes	
Galvanic isolation on subnetwork	Yes	
MTTF	>550 000 h	Telcordia Issue 2, Method 1 Case 3 at 30 °C
Environmental Characteristics		
Operating temp	0 to 55 °C, 32 to 131 °F	
Storage temp	-40 to 85 °C, -40 to 185 °F	
Relative Humidity	0-95% non condensing	
Installation altitude	up to 2 000 m	
Immunity and emission for industrial environment		
Electrostatic discharge	+/- 4 kV	EN 61000-4-2
Electro magnetic RF fields	10 V/m 80 MHz - 1 GHz 3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	EN 61000-4-3
Fast Transients	+/- 1 kV	EN 61000-4-4
Surge protection	+/- 1 kV	EN 61000-4-5
RF conducted interference	10 V/rms	EN 61000-4-6
Emission (at 10 m)	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	CISPR 16-2-3
Single Pack Accessories		
• Resource CD • Configuration Cable (RS232) Port • Installation sheet • Dsub with screw terminals for sub network		

Configuration of serial line RS-232/422/485 on byte and frame level.



NETWORK SPECIFIC FEATURES

1 = Network connector, 2 = Baud rate,
3 = I/O data, 4 = Other

CANopen	1 = DSUB9M 2 = Up to 1 Mbit/s 3 = 512 byte IN/OUT 4 = Supports profile CIA DS301 V4.02
CC-Link	1 = 1*5p; 5.08 Phoenix Plug 2 = Up to 10 Mbit/s 3 = 128 IO points, 16 word IN/OUT 4 = Up to 4 occupied stations
CC-Link IE Field	1 = 2*RJ45 2 = 1 Gbit/s 3 = 512 byte IN/OUT 4 = CC-Link IE Field Network, Intelligent Device Station
ControlNet	1 = 2*BNC Coax + RJ45 (NAP) 2 = 5 Mbit/s 3 = 450 byte IN/OUT 4 = Communications adapter, profile n. 12
DeviceNet	1 = 1*5p; 5.08 Phoenix Plug 2 = 125-500 kbit/s 3 = 512 byte IN/OUT 4 = Communications adapter, profile n. 12
EtherCAT	1 = 2*RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = DS301 V4.02 compliant, 4 FMMU Channels
EtherNet/IP	1 = RJ45 2 = 10/100 Mbit/s 3 = 512 IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus/TCP slave functionality
EtherNet/IP 2-port	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 512 IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus/TCP slave functionality
FIPIO	1 = DSUB9M 2 = 1 Mbit/s 3 = 32 words IN/OUT (cyclic) 4 = Data exchange according to FIPIO Extended Device Profile, Class 0
Interbus	1 = DSUB9F + DSUB9M 2 = 500 kbit/s, 2 Mbit/s 3 = 20 byte IN/OUT (process data), 512 bytes IN/OUT (with PCP) 4 = Interbus PCP V.2.0
Modbus Plus	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 32 words IN/OUT (global data), 512 words IN/OUT (register data) 4 = -
Modbus RTU	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 512 byte IN/OUT 4 = RS232 and RS485
Modbus TCP	1 = RJ45 2 = 10/100 Mbit/s 3 = 512 byte IN/OUT 4 = Class 0, 1 and partially class 2 slave functionality
PROFIBUS	1 = DSUB9F 2 = Up to 12 Mb 3 = 244 IN/OUT (416 total) 4 = Profibus DP (IEC 61158)
PROFINET IO	1 = RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = RT Communication and Cyclic data exchange



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