

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.

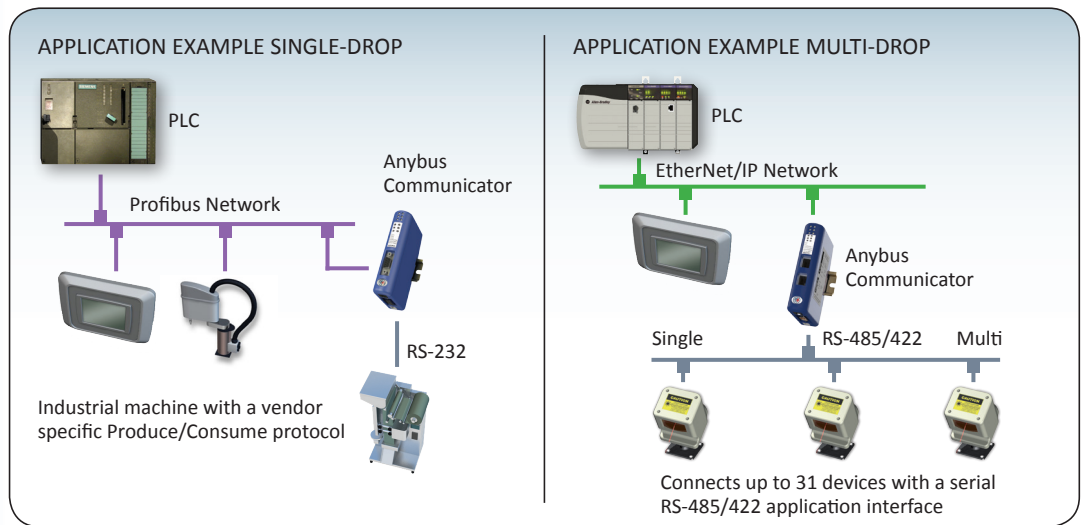
| Network: | Part No: |
|--------------------|----------|
| CANopen | AB7003 |
| CC-Link | AB7008 |
| ControlNet | AB7006 |
| DeviceNet | AB7001 |
| EtherCAT | AB7061 |
| EtherNet/IP | AB7007 |
| EtherNet/IP 2-port | AB7072 |
| FIPIO | AB7011 |
| Interbus | AB7012 |
| Modbus Plus | AB7002 |
| Modbus RTU | AB7010 |
| Modbus TCP | AB7028 |
| Profibus | AB7000 |
| Profinet | AB7013 |

Optional accessories

USB-RS232 configuration adapter
Part No: 019570



HMS provides a full 3 year product guarantee



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
- Global free technical support and consultancy
- See www.anybus.com for application notes and instruction videos on how to configure the gateway
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates the need for external switches

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.

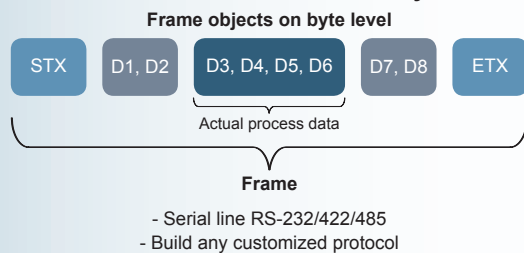
For industrial devices with a serial RS-232/422/485 interface, HMS makes it possible to configure almost any Produce/Consume, Request/Response or simple ASCII protocols with its flexible visual serial frame building method.

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 |
| 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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