

Communicator™

With the Anybus Communicator 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.

STPACE I



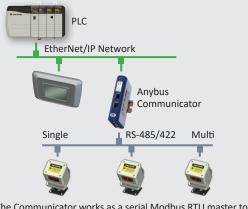
Typical Industries



Application example single-drop



Application example multi-drop



The Communicator works as a serial Modbus RTU master to the connected slave devices, and as a slave towards the PLC

Network:	Part No:
CANopen	AB7003
CC-Link	AB7008
CC-Link IE Field	AB7077
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 IO	AB7013
PROFINET IRT	AB7078

Optional accessories

USB-RS232 configuration adapter Part No: 019570



HMS provides a full 3 year product guarantee

Features and benefits

- Convert almost any RS-232/422/485 Request/Response or Produce/Consume protocol in just a few minutes For example Modbus RTU, ASCII, DF1.
- Pre-defined for Modbus RTU. Avoid the hassle of scripting and serial Modbus frame building with the 6-step Modbus RTU wizard.
- No hardware or software changes are required for the connected automation device
- Compatible with PLCs 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

Anybus Configuration Manager software



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

You can convert almost any RS-232/422/485 Request/Response or Produce/Consume protocol — Modbus RTU, ASCII, DF1, or user-specific.

The Communicator requires no PLC function blocks or programming. Just connect, configure and you're done.



Weight 150 g, 0, 33 lb Image: State	igisters, e Register, ent Ctr, 0x0C Get gisters, 0x11 Report k Write Register, Manager) 4 Write Data
Baud rate 1.2-57.6 kbit/s Physical standards RS232/422/485 Modbus Commands 0x01 Read Coils, 0x02 Read Discrete Inputs, 0x03 Read Holding R 0x04 Read Input Registers, 0x05 Write Single Coil, 0x06 Write Single Coil, 0x06 Write Single Coil, 0x06 Write Single Coil, 0x06 Write Single Coil, 0x16 Write Single Coil, 0x17 Write Single Envil, 0x17 Write Single Coil, 0x17 Write Single Coi	e Register, ent Ctr, 0x0C Get gisters, 0x11 Report k Write Register, Manager) 4 Write Data anager)
Physical standards RS232/422/485 Modbus Commands 0x01 Read Coils, 0x02 Read Discrete Inputs, 0x03 Read Holding R 0x04 Read Input Registers, 0x08 Diagnostics, 0x06 Get Comm E Comm Event Log, 0x0F Write Multiple Coils, 0x10 Write Multiple Registers, 0x18 Read FIFO Queue Customized commands can be created (in the Anybus Configuration N Technical Details State DF1 Services 0x01 Integrity Check, 0x02 Read Diagnostics, 0x03 Read Data, 0x0 Customized commands can be created (in the Anybus Configuration N Dechnical Details State Dimensions (L•W+H) 120-75-27 mm, 4,72-2,95-1,06" E Protection class IP20, NEMA rating 1 E E Installation position Any E EN1 Mounting DIN rail (35-7,5/15) EN1 EN1 ectrical Characteristics UL File number: E203225 UL 5 Hazardous Locations CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4 ISA ectrical Characteristics E E E Power 24 VDC +/- 10 % E E Current consumption Max 300 mA, Typical 100 mA T E ardware Characteristics E E E E	e Register, ent Ctr, 0x0C Get gisters, 0x11 Report k Write Register, Manager) 4 Write Data anager)
Modbus Commands X011 Read Coils, 0x02 Read Discrete Inputs, 0x03 Read Holding R 0x04 Read Input Registers, 0x08 Write Single Coil, 0x06 Write Sing 0x07 Read Exception Status, 0x08 Diagnostics, 0x08 Get Comm E Comm Event Log, 0x0F Write Multiple Coils, 0x10 Write Multiple Re Slave ID, 0x14 Read File Record, 0x15 Write File Record, 0x16 Ma 0x17 Read/Write Multiple Registers, 0x18 Read FIFO Queue Customized commands can be created (in the Anybus Configuration DF1 Services DF1 Services 0x01 Integrity Check, 0x02 Read Diagnostics, 0x03 Read Data, 0x0 Customized services can be created (in the Anybus Configuration N Technical Details Standard Details 0x01 Integrity Check, 0x02 Read Diagnostics, 0x03 Read Data, 0x0 Customized services can be created (in the Anybus Configuration N Technical Details Standard Dimensions (L-W+H) 120-75-27 mm, 4.72*2,95+1,06° 2 Protection class IP20, NEMA rating 1 2 Enclosure material PC ABS, UL 94 2 Installation position Any 2 Mounting DIN rail (35-7,5/15) EN i ertifications UL File number: E203225 UL 5 Queutrity protection Max 300 mA, Typical 100 mA 2 ardware Characteristics 2 2 Reverse voltage protection Yes EN i Galvanic isolation on subnetwork Yes	e Register, ent Ctr, 0x0C Get gisters, 0x11 Report k Write Register, Manager) 4 Write Data anager)
bx04 Read Input Registers, 0x05 Write Šingle Coll, 0x06 Write Šingle bx07 Read Exception Status, 0x08 Diagnostics, 0x08 Get Comm E Comm Event Log, 0x0F Write Multiple Registers, 0x18 Read FIFO Queue bx17 Read/Write Multiple Registers, 0x18 Read FIFO Queue Customized commands can be created (in the Anybus Configuration N DF1 Services 0x01 Integrity Check, 0x02 Read Diagnostics, 0x03 Read Data, 0x0 Customized services can be created (in the Anybus Configuration N Technical Details sechnical Details 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) Ertifications UL File number: E203225 UL 51 Hazardous Locations CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4 CE 2004/108/EC EN I ectrical Characteristics EN Reverse voltage protection Yes EN Galvanic isolation on subnetwork Yes EN I Galvanic isolation on subnetwork Yes EN I Operating temp 0 t	e Register, ent Ctr, 0x0C Get gisters, 0x11 Report k Write Register, Manager) 4 Write Data anager)
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Installation altitude up to 2 000 m	
munity and emission for industrial environment	
	1000-4-2
· · · · · · · · · · · · · · · · · · ·	1000-4-2
3 V/m 2,0 GHz - 2,7 GHz	1000-4-3
Fast Transients +/- 1 kV EN	1000-4-4
Surge protection +/- 1 kV EN	1000-4-5
RF conducted interference 10 V/rms EN	1000-4-6
Emission (at 10 m) 40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz CIS	PR 16-2-3

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 **1** = 1*5p; 5.08 Phoenix Plug **2** = Up to 10 Mbit/s CC-Link $\mathbf{3} = 896 \text{ IO points, } 128 \text{ word IN/OUT } \mathbf{4} = Up to 4 \text{ occupied stations, } 8$ extension cycles **CC-Link IE** 1 = 2*RJ45 2 = 1 Gbit/s Fixed 3 = 832 IO Points, 204 word IN/OUT 4 = CC-Link IE Field Network, Intel-Field ligent 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 = 504 IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus/TCP slave functionality EtherNet/IP 1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 504 IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus/TCP slave functionality 2-port 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 = -1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 512 byte IN/OUT 4 = RS232 and Modbus RTU 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 PROFINET 1 = 2*RJ45 2 = 100 Mbit/s 3 = 220 byte IN/OUT 4 = RT and IRT Communication IRT - 2 port

Configuration switches (if existing, behind lid) Network connector (see number 1 above) Configuration port RS subnetwork connector (DSUB 9-Pole female) Power connector with screw terminals

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Communicator[™] CAN

The Anybus Communicator CAN makes it possible to connect devices with a CAN-port to all major fieldbus and industrial Ethernet networks. The Anybus Communicator CAN performs an intelligent conversion between a CAN-based protocol of an automation device and the chosen fieldbus/Ethernet network. The Communicator CAN is a compact gateway that consumes very little space in a switching cabinet and is easily mounted onto a standard DIN rail.

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Typical Industries





S7PLC - PROFINET Master

Control Network - e.g. PROFINET

CAN based protocol



Availability

Downlink: CAN protocol Uplink Slave/Adapter: See below

Network:	Part No:
CANopen	AB7315
CC-Link	AB7321
ControlNet	AB7314
DeviceNet	AB7313
EtherCAT 2-port	AB7311
EtherNet/IP 2-port	AB7318
Modbus RTU	AB7316
Modbus-TCP 2-port	AB7319
PROFIBUS	AB7312
PROFINET-IO 1-port	AB7317
PROFINET-IRT 2-port	AB7328

Features and benefits

- CAN protocol converter gateways connecting CAN devices to fieldbus/Ethernet networks
- Support for custom CAN 1.0, 2.0A and 2.0B protocols
- Handles mixed Produce/Consume and Request/Response protocols and transactions
- No hardware or software changes needed to your devices
- No PLC code or function blocks required
- Compatible with PLCs from all leading manufacturers
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates the need for external switches
- High performance, fast throughput, max 5 ms
- Anybus Configuration Manager included for easy visual CAN frame building
- Dynamic transaction controlled by network master
- Global free technical support and consultancy
- See www.anybus.com for application notes and instruction videos on how to configure the gateway

User prerequisites

Knowledge of the CAN protocol to be converted/configured.

Flexible CAN configuration

APPLICATION EXAMPLE

The included Anybus Configuration Manager is an easy-to-use, visual CAN frame building tool that requires no programming or scripting skills. FDT/DTM based version of the Anybus Configuration Manager are available.

The flexible CAN frame building method makes it possible to configure almost any CAN-based Produce/ Consume and Request/Response protocol used in the industry.

The uplink fieldbus or Ethernet slave interface is configured using a standard device description file (GSD/ EDS) in the PLC engineering tool.



HMS provides a full 3 year product guarantee



TECHNICAL SPECIFI	 CATIONS		NETWORK SP	ECIFIC FEATURES		
Communicator CAN			1 = Network connector	2 - Paud rato		
Protocol	Configurable CAN 1.0, 2.0A and 2.0B based protocols		3 = I/O data, 4 = Other			
Baud rate	20 kbit/s - 1 Mbit/s		┤			
Physical standards	CAN		CANopen	1 = DSUB9M 2 = Up to 1 Mbit/s 3 = 512 byte IN/OUT 4 = Supports profile		
Technical Details		Standard				
Weight	150 g, 0,33 lb		CC-Link	1 = 1*5p; 5.08 Phoenix Plug 2 = Up to 1 3 = 896 IO points, 128 word IN/OUT 4 =		
Dimensions (L•W•H)	120•75•27 mm, 4,72•2,95•1,06"			extension cycles		
Protection class	IP20, NEMA rating 1		ControlNet	1 = 2*BNC Coax + RJ45 (NAP) 2 = 5 Mt	it/s	
Enclosure material	PC ABS, UL 94			3 = 450 byte IN/OUT 4 = Communication	ns adapter, profile n. 12	
Installation position	· ·		DeviceNet	1 = 1*5p; 5.08 Phoenix Plug 2 = 125-500		
Mounting	DIN rail (35•7,5/15)	EN 50022		3 = 512 byte IN/OUT 4 = Communication	ns adapter, profile n. 12	
Certifications	File number: E 203225	UL 508 Ind. Cont. Eq.	EtherCAT - 2 port	1 = 2*RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = DS301 V4.02 c	ompliant, 4 FMMU Channels	
Hazardous Locations	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ANSI/ISA-12.12.01-200	0 EtherNet/IP - 2	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 509/5	05 byte IN/OUT	
ATEX		EN 60079-15	port	4 = EtherNet/IP group 2 and 3 server. Mod	bus TCP slave functionality	
CE	(except Modbus RTU) 2004/108/EC	EN 60079-11 EN 61000-6-4	Modbus RTU	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 512 RS485	1,2-57,6 kbit/s 3 = 512 byte IN/OUT 4 = RS232 and	
		EN 61000-6-2	Modbus TCP -	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 512	hyte IN/OUT	
Electrical Characteristics			2 port	4 = Security framework	-,	
Power			PROFIBUS	1 = DSUB9F 2 = Up to 12 Mb		
Current consumption				3 = 244 IN/OUT (344 total) 4 = Profibus	DP (IEC 61158)	
Hardware Characteristics			PROFINET IO	1 = RJ45 2 = 100 Mbit/s 3 = 512 byte	IN/OUT	
Reverse voltage protection	Yes		- 1 port	4 = RT Communication and Cyclic data ex		
Short circuit protection	Yes		PROFINET	1 = 2*RJ45 2 = 100 Mbit/s 3 = 220 by	te IN/OUT	
Galvanic isolation on subnetwork			IRT - 2 port	4 = RT Communication and Support for I&		
Environmental Character						
Operating temp		IEC 60068-2-1 IEC 60068-2-2			Status LEDs	
Storage temp	-40 to 85 °C, -40 to 185 °F	IEC 60068-2-1 IEC 60068-2-2	Configuration s	Configuration switches		
Relative Humidity	, v	IEC 60068-2-30	(if existing, behi	nd lid)		
Installation altitude				4 Device Design 8 Device		
Immunity and emission for		EN 04000 4 0				
Electrostatic discharge	+/- 4 kV	EN 61000-4-2	Network connect		DIN sell segmenter	
Electromagnetic 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	(see number 1 at	(see number 1 above)		
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		Configuration port CAN subnetwork		
Emission (at 10 m)	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	CISPR 16-2-3	Configuration port			
Single Pack Accessories						
Configuration Cable (USB) Port • Inst	allation sheet • Dsub with screw terminals for subnetwork		connector (female)	DSUB 9-Pole Powe	er connector	
The easy to use, visual based Anybus Configuration Manager contains pre-prepared functionality for CAN frame building that gets your devices up and running in no time.	Network [PROFIBUS DP-V1] Communicator Subnetwork @ Temp. sensor	ybus Configuration Manager - Com Edit Icols Online Help I Icols (PROFIBUS DP-V1] Communication Subnetwork:	municator CAN	1000 kbit/s No Action 29 bit	screw terminals	
HMS Industrial N	letworks – Worldwide					
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