

## Anybus Communicator – CAN to Modbus-RTU

Item number: AB7316-B

The Anybus Communicator – CAN to Modbus-RTU converts CAN protocols to Modbus-RTU, enabling you to connect any CAN-based device or equipment to Modbus-RTU control systems. Anybus Communicators ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



*A protocol converter that connects CAN devices to Modbus-RTU control systems.*

### Features and benefits

- ✓ **No hardware or software changes needed**  
Integrate your CAN-based industrial devices and equipment to a PROFINET-IRT control system without the need for any changes to the device. Just connect, configure and you're done!
- ✓ **Compatible**  
Convert CANopen, or any custom CAN 1.0, 2.0A, or 2.0B protocol, in just a few minutes.
- ✓ **3-year warranty**  
The Communicator is designed to be robust and long-lasting. A 3-year guarantee is provided.
- ✓ **Convert proprietary protocols**  
Converts Produce/Consume and Request/Response protocols and transactions.
- ✓ **Daisy chaining**  
Versions with Dual Port switched Ethernet allow for daisy chaining and eliminate the need for external switches.
- ✓ **Easy integration**  
No code or function blocks needed
- ✓ **CAN frame building**  
Use the Anybus Configuration Manager for easy visual CAN frame building.
- ✓ **Slim hardware design**  
The Communicator is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **Any PLC**  
Compatible with PLCs from all leading manufacturers
- ✓ **Save & Load**  
The Save/Load function enables a completed configuration to be re-used for other installations.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- ✓ **Life cycle management**  
HMS maintains every part of the Communicator, including network updates, throughout the product's lifecycle.



# Anybus Communicator – CAN to Modbus-RTU

| General                                        |                                    |
|------------------------------------------------|------------------------------------|
| Net Width (mm)                                 | 27                                 |
| Net Height (mm)                                | 120                                |
| Net Depth (mm)                                 | 75                                 |
| Net Weight (g)                                 | 150                                |
| Packed Width (mm)                              | 135                                |
| Packed Height (mm)                             | 55                                 |
| Packed Depth (mm)                              | 170                                |
| Packed Weight (g)                              | 300                                |
| Operating Temperature °C Min                   | -25                                |
| Operating Temperature °C Max                   | 55                                 |
| Storage Temperature °C Min                     | -40                                |
| Storage Temperature °C Max                     | 85                                 |
| Current Consumption Type Value at Vcc Nom (mA) | 100mA @ 24V DC                     |
| Current Consumption Max value at Vcc nom (mA)  | 250mA @ 24V DC                     |
| Input Voltage (V)                              | 24V DC (-10% to +10%)              |
| Power Connector                                | 2-pin, 5.08 Phoenix plug connector |
| Reverse Polarity Protection                    | Yes                                |
| Short Circuit Protection                       | Yes                                |
| Isolation                                      | Yes                                |



# Anybus Communicator – CAN to Modbus-RTU

## General

|                    |                              |
|--------------------|------------------------------|
| Mounting           | DIN-rail (EN 50022 standard) |
| Housing Materials  | Plastic                      |
| Packaging Material | Cardboard                    |

## Identification and Status

|                   |            |
|-------------------|------------|
| Product ID        | AB7316-B   |
| Country of Origin | Sweden     |
| HS Code           | 8517620000 |
| Dual Usage        | No         |

## Physical Features

|                             |                                          |
|-----------------------------|------------------------------------------|
| Connectors / Input / Output | male 9-DSUB;1x D-sub 9-pin female        |
| DIP & Rotary Switches       | dip switch Termination and configuraiton |
| Contains Battery            | No                                       |

## CAN Features

|                             |                                                                                                                                                                                                                            |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAN Supported Functionality | CAN standards 2.0A/2.0B (11 and 29 bit identifiers); 128 CAN transactions (total 256 CAN frames) - Produce, Consume, Query/Response; Cyclic, On Data Change, Single Shot, Trigger Byte update modes; Data Word Swap option |
| CAN Mode                    | Generic CAN                                                                                                                                                                                                                |
| CAN Baud Rate               | 20 kBit/s to 1 Mbit/s                                                                                                                                                                                                      |

## Modbus-RTU Features

|                                    |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Modbus-RTU Mode                    | Slave mode                                                                                                    |
| Modbus-RTU Supported Functionality | Modbus-RTU compliant passive slave node operation; 256 Modbus registers in each direction; Modbus diagnostics |
| Modbus-RTU Functions Supported     | 1, 2, 3, 4, 5, 6, 15, 16, 22, 23                                                                              |
| Modbus-RTU Baud Rate               | 1200bps - 57600bps                                                                                            |
| Modbus-RTU Input Data Size         | 512 bytes                                                                                                     |
| Modbus-RTU Output Data Size        | 512 bytes                                                                                                     |



## Anybus Communicator – CAN to Modbus-RTU

### Certifications and Standards

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection Class IP    | IP20                                                                                                                                                 |
| RoHS Compliant         | Yes                                                                                                                                                  |
| Recycle / Disposal     | Yes                                                                                                                                                  |
| Product Certifications | CE, UL, ATEX , WEEE                                                                                                                                  |
| UL Information         | E214107: Ord.Loc UL508, CSA C22.2 NO. 142; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213, CAN/CSA C22.2 No. 142 |
| ATEX Information       | II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11                                                                                        |
| Environment            | EN 61000-6-4, EN 55016-2-3 Class A, EN 55022 Class A, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6             |
| WEEE Category          | IT and telecommunications equipment                                                                                                                  |