

## Anybus Communicator – Serial Master to Modbus- TCP

Item number: AB7028-C

The Anybus Communicator – Serial Master to Modbus-TCP converts serial protocols to Modbus-TCP, enabling you to connect any RS-232/485 device or equipment to Modbus-TCP control systems. Anybus Communicators ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



## Features and benefits

# Anybus Communicator – Serial Master to Modbus-TCP



## General

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Net Weight (g)                                 | 300                                |
| Packed Width (mm)                              | 15                                 |
| Packed Height (mm)                             | 6                                  |
| Packed Depth (mm)                              | 17                                 |
| Packed Weight (g)                              | 300                                |
| Operating Temperature °C Min                   | 0                                  |
| Operating Temperature °C Max                   | 55                                 |
| Storage Temperature °C Min                     | -40                                |
| Storage Temperature °C Max                     | 85                                 |
| Relative Humidity                              | 0-95% non condensing               |
| Current Consumption Type Value at Vcc Nom (mA) | 100mA @ 24V DC                     |
| Current Consumption Max value at Vcc nom (mA)  | 300mA @ 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                                      | TRUE                               |
| Maximum Installation Altitude (m)              | up to 2 000 m                      |
| Mounting                                       | DIN-rail (EN 50022 standard)       |

# Anybus Communicator – Serial Master to Modbus-TCP



## General

|                    |               |
|--------------------|---------------|
| Housing Materials  | PC ABS, UL 94 |
| Packaging Material | Cardboard     |

## Identification and Status

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Product ID                                  | AB7028-C                          |
| Successor                                   | ABC3028-A, ABC3090-A, ABC3090EX-A |
| Country of Origin                           | Sweden                            |
| HS Code                                     | 8517620000                        |
| Dual Usage                                  | No                                |
| Export Control Classification Number (ECCN) | 5A991.b.1                         |

## Physical Features

|                             |                               |
|-----------------------------|-------------------------------|
| Connectors / Input / Output | 1x D-sub 9-pin female, 2xRJ45 |
| Contains Battery            | No                            |

## Modbus-RTU Features

|                                    |                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modbus-RTU Mode                    | Client / Master                                                                                                                                                                                                                          |
| Modbus-RTU Supported Functionality | RS-232; RS-422; RS485; DF1; Standard Modbus RTU Master; Custom Request / Response commands; Custom Produce / Consume transactions; Trigger initiated transactions 7 or 8 data bit; None, Odd, Even Parity; 1 or 2 stop bit; Clear/Freeze |
| Modbus-RTU Functions Supported     | 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 15, 16, 17, 20, 21, 22, 24                                                                                                                                                                               |
| Modbus-RTU Baud Rate               | 1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600 bit/s                                                                                                                                                                        |
| Modbus-RTU Input Data Size         | 512 bytes                                                                                                                                                                                                                                |
| Modbus-RTU Output Data Size        | 512 bytes                                                                                                                                                                                                                                |

## Modbus-TCP Features

|                                    |                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Modbus-TCP Mode                    | Slave / Server                                                                                                        |
| Modbus-TCP Supported Functionality | Modbus specification V1.0; Daisy chaining; QoS; Modbus TCP class 0, class 1 and partially class 2 slave functionality |
| Modbus-TCP Bandwidth               | 10/100 Mbit/s                                                                                                         |



## Modbus-TCP Features

|                             |           |
|-----------------------------|-----------|
| Modbus-TCP Input Data Size  | 512 bytes |
| Modbus-TCP Output Data Size | 512 bytes |

## Serial Features

|                         |                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connector               | 1x D-sub 9-pin female                                                                                                                                                                                                                    |
| Max Nodes               | 31                                                                                                                                                                                                                                       |
| Baud Rate               | 1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600 bit/s                                                                                                                                                                        |
| Supported Functionality | RS-232; RS-422; RS485; DF1; Standard Modbus RTU Master; Custom Request / Response commands; Custom Produce / Consume transactions; Trigger initiated transactions 7 or 8 data bit; None, Odd, Even Parity; 1 or 2 stop bit; Clear/Freeze |

## Certifications and Standards

|                            |                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Protection Class IP        | IP20                                                                                                                     |
| RoHS Compliant             | Yes                                                                                                                      |
| Recycle / Disposal         | TRUE                                                                                                                     |
| CE                         | Yes                                                                                                                      |
| FCC                        | No                                                                                                                       |
| UL                         | Yes                                                                                                                      |
| UL Information             | E214107: Ord.Loc UL508, CSA C22.2 No. 14-10; E203225: Haz.Loc CL I DIV2 GP A,B,C,D, ANSI/ISA 12.12.01, CSA C22.2 No. 213 |
| EMC                        | Yes                                                                                                                      |
| Environment                | EN 50082-2, EN 55011, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6                 |
| Waste Certification (WEEE) | Yes                                                                                                                      |
| WEEE Category              | IT and telecommunications equipment                                                                                      |