



## Anybus Communicator IIoT - MQTT-OPC UA

Integrate your serial RS-232/422/485 based industrial devices and equipment to an OPC UA or MQTT monitoring system without the need for any changes to the device. Just connect, configure and you're done!

The Anybus Communicator IIoT is a proven and trusted protocol converter gateway that connects non-networked industrial devices and equipment to IIoT systems. The gateway performs an intelligent protocol conversion and presents the serial data as OPC UA or MQTT tagged IIoT data.

The Communicator is slim stand-alone gateway designed for IP20 and DIN-rail mounting, requiring a 24-volt power supply.

### CONVERT ALMOST ANY TYPE OF SERIAL PROTOCOL

The Communicator is capable of converting almost any type of serial protocol such as Modbus RTU, ASCII, DF1 or any other type of proprietary Query/Response or Produce/Consume protocol.

### TYPICAL SERIAL APPLICATIONS

Typical serial applications include variable frequency drives, sensors, actuators, human machine interfaces, barcode readers, RFID readers and industrial scales among others.



### FEATURES & BENEFITS

- Allows system integrators to retro-fit older automation devices into the latest IIoT communication protocols
- Requires no hardware or software changes to be made to the connected device
- Performs complete serial protocol conversion
- Intelligent I/O data mapping within the Communicator permits even devices with slow serial communication can be integrated without any restrictions to the upper network
- Possibility to connect up to 31 nodes via one Communicator giving inexpensive IIoT network connectivity for your devices
- Integrated Email client, FTP server and embedded webserver for diagnostics and data visualization
- Always free technical support from HMS and our global Anybus Distributors

No high level programming skills are needed to set up the Anybus® Communicator as configuration is accomplished using the included, easy to use Windows™ based ACM (Anybus Configuration Manager).

- Selectable RS-232/422/485 interface
- Pre-defined 6-step Modbus-RTU configuration wizard
- Selectable pre-loaded DF1 commands. No scripting or serial frame building required!
- Ability to configure ASCII or vendor specific protocols (Request/Response or Produce/Consume via a visual frame building interface)
- Multi-language support for English, German, Spanish, Italian, French, Polish, Russian, Chinese and Japanese
- Handy Save/Load function allows for a completed configuration to be re-used for many other installations
- Password protection prevents unauthorized upload and download of configurations
- Serial Line Listener and In-built Checksum calculations for diagnostic and troubleshooting

### OPC UA

- Support for micro-embedded profile
- Data direction from server to client
- Supports Discovery Services
- Timestamp supported via discovery server

- User name and password authentication
- Supports DataChange Subscription
- Maximum 80 data point tags
- Dual port cut-through switch
- Dual RJ-45 ports available simultaneously

#### MQTT

- MQTT client acting as publisher
- MQTT version 3.1.1 supported
- Json data encoding supported
- QoS 0-2 supported
- User name and password authentication
- Maximum 256 data point tags
- Dual port cut-through switch
- Dual RJ-45 ports available simultaneously

#### TECHNICAL SPECIFICATIONS

##### COMMUNICATOR RS-232/422/485

<b>Protocol</b>	Configurable RS-232/422/485 based produce/consume, query/response ASCII
<b>Max stations</b>	31 (with RS485/422)
<b>Baud rate</b>	1,2-57,6 kbit/s
<b>Physical standards</b>	RS232/422/485
<b>Modbus Commands</b>	0x01 Read Coils, 0x02 Read Discrete Inputs, 0x03 Read Holding Registers, 0x04 Read Input Registers, 0x05 Write Single Coil, 0x06 Write Single Register, 0x07 Read Exception Status, 0x08 Diagnostics, 0x0B Get Comm Event Ctr, 0x0C Get Comm Event Log, 0x0F Write Multiple Coils, 0x10 Write Multiple Registers, 0x11 Report Slave ID, 0x14 Read File Record, 0x15 Write File Record, 0x16 Mask Write Register, 0x17 Read/Write Multiple Registers, 0x18 Read FIFO Queue Customized commands can be created (in the Anybus Configuration Manager)
<b>DF1 Services</b>	0x01 Integrity Check, 0x02 Read Diagnostics, 0x03 Read Data, 0x04 Write Data Customized services can be created (in the Anybus Configuration Manager) Technical Details Standard

#### TECHNICAL DETAILS

<b>Dimensions (L x W x H) with serial and power connector</b>	120 x 75 x 27 mm 4,72 x 2,95 x 1,06"	
<b>Weight</b>	150 grams, 0.33 lb	
<b>Protection class</b>	IP20 Nema rating 1	
<b>Enclosure material</b>	I PC ABS, UL 94	
<b>Installation position</b>	Any	
<b>Mounting</b>	DIN rail (35 * 7,5/15)	EN50022

#### CERTIFICATIONS

<b>UL</b>	File number: E203225	UL 508 Ind. Cont. Eq.
<b>Hazardous Locations</b>	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ISA 12.12.01
<b>CE</b>	2004/108/EC	EN 61000-6-4 EN 61000-6-2

**ELECTRICAL CHARACTERISTICS**

<b>Power</b>	24 VDC +/- 10 %
<b>Current consumption</b>	Max 300 mA, Typical 100 mA

**ENVIRONMENTAL CHARACTERISTICS**

<b>Reverse voltage protection</b>	Yes	
<b>Short circuit protection</b>	Yes	
<b>Galvanic isolation on subnetwork</b>	Yes	EN 60950-1
<b>MTTF</b>	>550 000 h	Telcordia Issue 2, Method 1 Case 3 at 30 o C

**HARDWARE CHARACTERISTICS**

<b>Operating temp</b>	0 to 55 o C, 32 to 131 o F
<b>Storage temp</b>	-40 to 85 o C, -40 to 185 o F
<b>Relative Humidity</b>	0-95% non condensing
<b>Installation altitude</b>	up to 2 000 m

**IMMUNITY AND EMISSION FOR INDUSTRIAL ENVIRONMENT**

<b>Electrostatic discharge</b>	+/- 4 kV	EN 61000-4-2
<b>Electro magnetic RF fields</b>	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
<b>Fast Transients</b>	+/- 1 kV	EN 61000-4-4
<b>Surge protection</b>	+/- 1 kV	EN 61000-4-5
<b>RF conducted interference</b>	10 V/rms	EN 61000-4-6
<b>Emission (at 10 m)</b>	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	CISPR 16-2-3

## Content of delivery

- Configuration Cable (RS232) Port
- Installation sheet
- Dsub with screw terminals for sub network

## Ordering Information

**ORDER CODE: AB7079****INCLUDED COMPONENTS:**

- Quick start documentation
- Configuration cable (RS-232) is supplied with every single-piece Communicator shipment
- D-sub connector with screw terminals for serial sub-network is supplied with every single-piece Communicator shipment
- Configuration software available for download

- (Power supply not included)

**OPTIONAL ACCESSORIES:**

- USB-RS-232 configuration adapter (Order Code: 019570)

**GUARANTEE:** 3 years

For purchasing instructions and terms and conditions, see: → [How to buy](#)

---

Copyright © 2020 HMS Industrial Networks - All rights reserved.