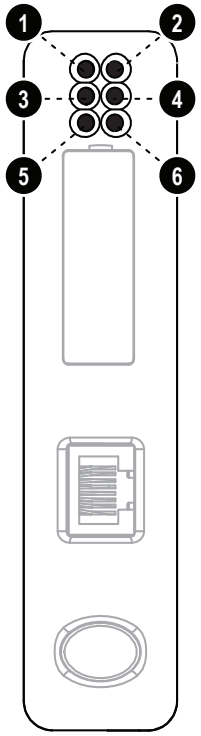
## Module Front




## LED Indicators

| LED | Indication | Description |
|---|---|---|
| 1 (Module Status) | Off<br>Green<br>Flashing Green<br><br>Flashing Red<br>Red<br>Flashing Green/Red | No power<br>Controlled by a scanner in run state<br>Not configured, or scanner in idle state<br><br>Minor fault (recoverable)<br>Major fault (unrecoverable)<br>Self-test in progress |
| 2 (Network Status) | Off<br>Green<br><br>Flashing Green<br><br>Red<br>Flashing Red<br>Flashing Green/Red | No IP address, or no power<br>Online, one or more EtherNet/IP connections established<br>Online, no connections established<br><br>Duplicate IP address detected. Fatal error.<br>One or more connections timed out<br>Self-test in progress |
| 3 (Link) | Off<br>Green | No link<br>Connected to an Ethernet network |
| 4 (Activity) | Off<br>Flashing Green | No Ethernet activity<br>Activity, receiving/transmitting Ethernet packets |
| 5 (Subnet Status) | Flashing green<br>Green<br>Red | Running, but one or more transaction errors<br>Running<br>Transaction error/timeout or subnet stopped |
| 6 (Device Status) | Off<br>Alternating red/green<br>Green<br>Flashing green<br>Red<br>Flashing red | Power off<br>Invalid or missing configuration<br>Initializing<br>Running<br>Bootloader mode<br>Note the flash sequence pattern and contact HMS support |

## Accessories Checklist

The following items are required for installation:

- Anybus Communicator Resource CD (Includes configuration software, manuals and application notes)
- RS232 configuration cable
- Subnetwork connector
- Ethernet cable and connector (not included)

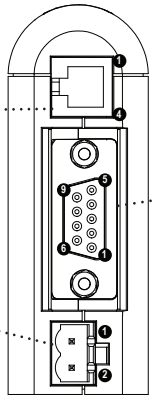
## Installation and Startup Summary

- Mount the Communicator on the DIN-rail.
- Connect the Communicator to the Ethernet/IP network.
- Connect the Communicator to the subnetwork.
- Connect the configuration cable between the Communicator and the PC containing the Anybus Configuration Manager software (ACM).
- Power on the Communicator (+24 V DC).
- Configure the Communicator using ACM.
- Include the Anybus Communicator EDS file in the Ethernet/IP configuration tool.
- Configure and start the Ethernet/IP network.

## Bottom View

PC Connector:
1. GND
2. GND
3. RS232 Rx
4. RS232 Tx

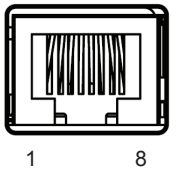
Power:
1. +24 V DC
2. GND



Subnetwork Connector

| Pin no. | Description |
|---|---|
| 1 | +5V OUT |
| 2 | RS232 Rx |
| 3 | RS232 Tx |
| 4 | NC |
| 5 | Signal GND |
| 6 | RS422 Rx+ |
| 7 | RS422 Rx- |
| 8 | RS485+ / RS422 Tx+ |
| 9 | RS485- / RS422 Tx- |

## Ethernet/IP Connectors




| Pin no | Description |
|---|---|
| 1 | TD+ |
| 2 | TD- |
| 3 | RD+ |
| 4 | Termination |
| 5 | Termination |
| 6 | RD- |
| 7 | Termination |
| 8 | Termination |

Further information and documents about this product can be found at the product pages on www.anybus.com.

## UL Certification

c UL US LISTED

IND: CONT. EQ.
FOR HAZ LOC.
CL I, DIV 2
GP A,B,C,D
TEMP
CODE
E203225

### Warnings!

- **WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**
- **WARNING - EXPLOSION HAZARD - WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.**
- **WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.**

### Attention!

- **ATTENTION – RISQUE D'EXPLOSION – LE REMPLACEMENT DE TOUT COMPOSANTS INVALIDE LA CERTIFICATION CLASS I, DIVISION 2.**
- **ATTENTION – RISQUE D'EXPLOSION – EN ZONE EXPLOSIVE, VEUILLEZ COUPER L'ALIMENTATION ÉLECTRIQUE AVANT LE REMPLACEMENT OU LE RACCORDEMENT DES MODULES.**
- **ATTENTION – RISQUE D'EXPLOSION – NE PAS DÉCONNECTER L'ÉQUIPEMENT TANT QUE L'ALIMENTATION EST TOUJOURS PRÉSENTE OU QUE LE PRODUIT EST TOUJOURS EN ZONE EXPLOSIVE ACTIVE.**

## Additional installation and operating instructions

- Max Ambient Temperature: 55°C (for Hazloc environments)
- Field wiring terminal markings (wire type (Cu only, 14-30 AWG)).
- Use 60/75 or 75°C copper (Cu) wire only.
- Terminal tightening torque must be 5-7 lb-in (0.5 - 0.8 Nm).
- Use in overvoltage category 1 pollution degree 2 environment.
- Installed in an enclosure considered representative of the intended use.
- Secondary circuit intended to be supplied from an isolating source and protected by overcurrent protective devices installed in the field sized per the following:

| Control Circuit Wire Size | | Maximum Protective Device Rating |
|---|---|---|
| AWG | ($mm^2$) | Amperes |
| 22 | (0.32) | 3 |
| 20 | (0.52) | 5 |
| 18 | (0.82) | 7 |
| 16 | (1.3) | 10 |
| 14 | (2.1) | 20 |
| 12 | (3.3) | 25 |

## ODVA Conformity

EtherNet/IP conformance tested

EtherNet/IP CONFORMANCE TESTED™ is a certification mark of ODVA.

## EMC Compliance (CE)

CE

This product is in accordance with the EMC directive 89/336/EEC, with amendments 92/31/EEC and 93/68/EEC through conformance with the following standards:

- **EN 50082-2 (1993)**
  EN 55011 (1990) Class A
- **EN 61000-6-2 (1999)**
  EN 61000-4-3 (1996) 10 V/m
  EN 61000-4-6 (1996) 10 V/m (all ports)
  EN 61000-4-2 (1995) ±8 kV Air Discharge
  ±4 kV Contact discharge
  EN 61000-4-4 (1995) ±2 kV Power port
  ±1 kV Other ports
  EN 61000-4-5 (1995) ±0.5 kV Power ports (DM/CM)
  ±1 kV Signal ports

Further information and documents about this product can be found at the product pages on www.anybus.com.