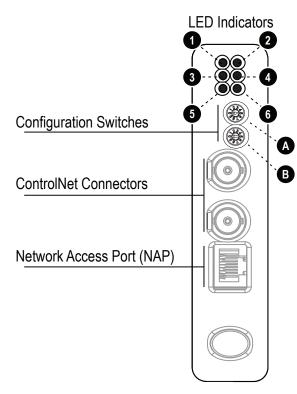
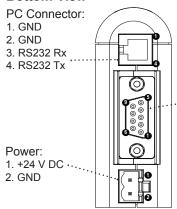
#### **Module Front**



### **Bottom View**



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-	

#### **LED Indicators**

LED no	Indication	Meaning
1 (Channel A) 2 (Channel B)	A and B; Off A and B; Red A and B; Alternating red/green A and B; Flashing red A or B; Off A or B; Green A or B; Flashing green A or B; Flashing red A or B; Flashing red / green	Device not initialized Device must be restarted or repaired Bus controller self test Incorrect node configuration; e.g. duplicate Mac ID Channel disabled, depends on network configuration Normal operation Temporary error or node not configured Media fault or no other nodes available Incorrect network configuration
3 (Module Status)	Flashing green Green Flashing red Red	Waiting for initialization Initialized Minor fault, recoverable Major fault, unrecoverable
4 (Module Owned)	Green Off	A connection has been opened No connection opened
5 (Subnet Status)	Flashing green Green Red	Running, but one or more transaction errors Running Transaction error/timeout or subnet stopped
6 (Device Status)	Off Alternating red/green Green Flashing green Red Flashing red	Power off Invalid or missing configuration Initializing Running Bootloader mode Note the flash sequence pattern and contact the HMS support department

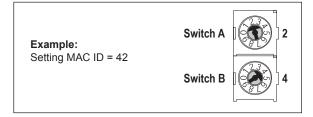
## 



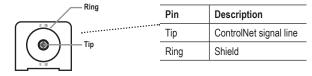


Set the ControlNet MAC ID by using the configuration switches (A and B) as follows:

MAC ID = (switch B \* 10) + (switch A \* 1)



#### **ControlNet Connectors**



### **Network Access Port (NAP)**



Pin no	Description
1, 8	GND_REF
2, 7	NC
3	TX_H
4	TX_L
5	RX_L
6	RX_H
Housing	Protective Earth (PE)
-	

#### **Accessories Checklist**

The following items are required for installation:

- Anybus Communicator Resource CD (Includes configuration software, manuals, EDS file and application notes)
- RS-232 configuration cable
- Sub-network connector
- ControlNet network cable and connector (not included)

### **Installation and Startup Summary**

- Mount the Communicator on the DIN-rail.
- Connect the Communicator to the ControlNet network.
- Connect the Communicator to the sub-network.
- 4. Power up the Communicator (+24V DC).
- 5. Connect the configuration cable between the Communicator and the PC containing the Anybus Configuration Manager software (ACM).
- Configure the Communicator using ACM.
- 7. Include the Anybus Communicator EDS file in the ControlNet configuration tool.
- Configure and start the ControlNet network.

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

SP0630, rev. 1.20, Mar 2015 www.anybus.com Anybus Communicator Installation Sheet

#### **UL Certification**



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 NONHAZARDOUS.

#### Attention!

- ATTENTION RISQUE D'EXPLOSION LE REM-PLACEMENT 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 EXPLO-SIVE 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 between 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	(mm²)	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 Compliance**



ControlNet CONFORMANCE TESTED  $^{\text{TM}}$  is a certification mark of ODVA.

### **EMC Compliance (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.