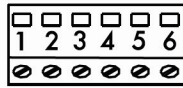


YDA01C-20MA (current/voltage interface):  
6-pin terminal screw strip on the interface module

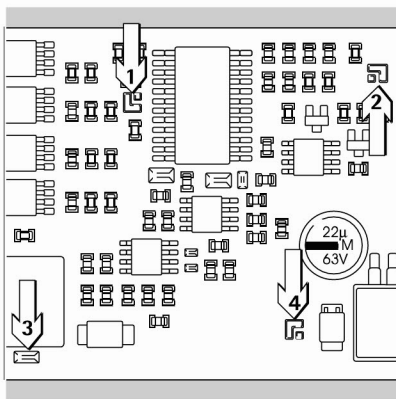


Pin 1: GND  
(electrically isolated ground)  
Pin 2: 4-20mA\_VOUT  
(current interface, source)  
Pin 3: GND\_VOUT  
(current interface, sink)  
Pin 4: V\_EXTERN  
(external supply: +24V)  
Pin 5: GND\_EXTERN  
(external supply: ground)  
Pin 6: GND, electrically isolated  
(electrically isolated ground)

#### YDA01C-20MA (Option A4)

The YDA01C-20MA interface module is an analog output port. This module can be operated as either a current interface (0/4 to 20 mA) or a voltage interface (0 to 5 V). Voltage can be supplied internally or externally (electrically isolated<sup>1)</sup>). Configuring the module for the intended use involves opening and closing certain solder bridges.

The positions of the relevant solder bridges are shown in the drawing on the left.



Configuration of the solder bridges  
(factory setting)



The interface module can be configured for any of the following 3 operating states:

- Voltage interface, 0 to 5 V
- Current interface, 0 to 20 mA
- Current interface, 4 to 20 mA

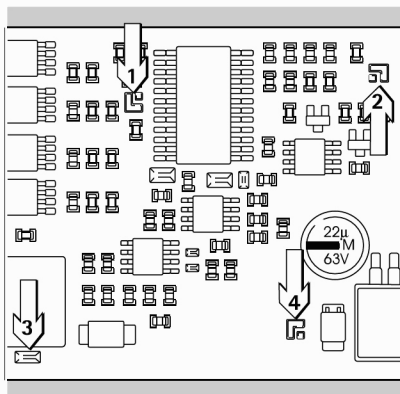
The operating state is defined by the configuration of solder bridges 1 and 2. Solder bridge 1 has 3 settings: “0 to 5 V”, “0 to 20 mA” and “4 to 20 mA”. Solder bridge 2 defines whether the module is used as a voltage interface or a current interface.

- ⚠ Make sure that the settings for solder bridges 1 and 2 are compatible; for example, if solder bridge 1 is configured for one of the current interface settings, solder bridge 2 must be set to “current interface”. Conversely, if solder bridge 1 is set to “0 to 5 V”, solder bridge 2 must be set to “voltage interface”.

The voltage supply setting (“internal” or “external”; factory setting: internal) is defined by solder bridges 3 and 4 (see the illustration on the left).

- ⚠ Make sure the settings for solder bridges 3 and 4 are compatible; i.e., either both for internal or both for external voltage supply.

<sup>1)</sup> The shielding in the connecting cable is connected at one end to the housing of the indicator. The indicator is connected to the protective grounding conductor.



The factory defaults are as follows (see the illustration on the left):

- Operation as a current interface
- Range of current intensity: 4 to 20 mA
- Voltage supply: internal

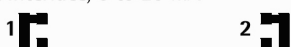
Configuration of the solder bridges

Current interface, 4 to 20 mA



- Operation as a Current Interface in the 4 to 20 mA Range (Factory Setting):
- Solder bridges 1 and 2 must be configured as shown in the illustration on the left.

Current interface, 0 to 20 mA



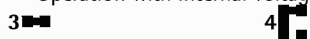
- Operation as a Current Interface in the 0 to 20 mA Range:
- Re-solder bridge 1 as shown in the illustration on the left.
- Solder bridge 2 must be configured as shown in the illustration on the left. This corresponds to the factory default configuration.

Voltage interface, 0 to 5 V



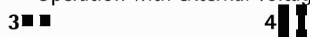
- Operation as a Voltage Interface (0 to 5 V):
- Open solder bridge 1 so that the setting corresponds to that shown here on the left.
- Re-solder bridge 2 as shown in the illustration.

Operation with internal voltage supply



- Operation with Internal Voltage Supply (Factory Setting):
- Solder bridges 3 and 4 must be configured as shown in the illustration on the left.

Operation with external voltage supply



- Operation with External Voltage Supply:
- Open solder bridge 3.
- Re-solder bridge 4 as shown in the illustration.

Operation as an electrically isolated interface



- Operation as an Electrically Isolated Interface:
- Configure solder bridges 3 and 4 for "external supply". To do this, open solder bridge 3 and re-solder bridge 4 as shown in the illustration.
- If the interface is powered by an external AC adapter, it must be electrically isolated. Be sure to comply with the requirements of CE conformity.

#### Notes

- The shielding in the current interface connecting cable is connected at one end to the housing of the indicator.
- The indicator is connected to the protective grounding conductor.
- The current interface cannot be operated when the indicator is powered by the external rechargeable battery pack.

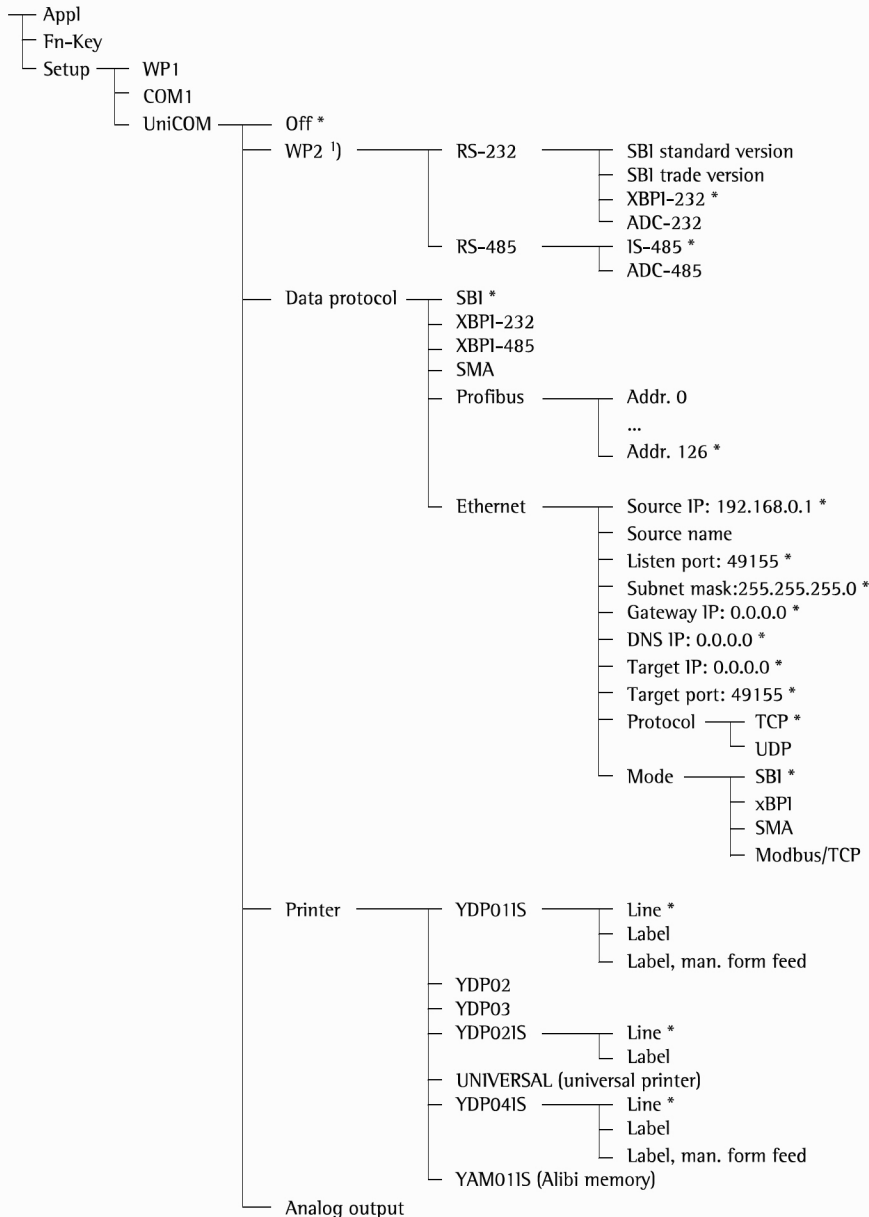
- The YDA01C-20MA interface module (Option A4) is installed directly on the digital PCB in the Combiics indicator (models CISL., CIS., CW.P, CW.S). For details, please see "Installation in the Indicator".

# Configuring the UniCOM Interface

## Configuring Combics 1 and Combics 2 Models

### Operating Menu Overview for the UniCOM Interface

(also refer to the operating menu overview in the Combics operating instructions, in the chapter entitled “Operating the Combics”)



\* = Factory setting

1) Not on Combics 1 models

### Configuring the Interface

Configure the UniCOM universal data interface for connection of either a peripheral device or a second weighing platform/digital compact scale by selecting the corresponding settings in the operating menu. The diagram on the left shows the relevant section of the operating menu.

### RS-485/422 Interface

If the PCB is configured for use in the RS-422 operating mode, you can select menu item “SBI” and “XBPI-232”.

### Analog Interface

You can configure the following parameters in the operating menu:

- Output value (menu line 8-12):  
8-12-1: Net value (factory setting)  
8-12-2: Gross value
- Error display (menu line 8-13):  
8-13-1: High level (20 mA)  
(factory setting)  
8-13-2: Low level (0/4 mA):  
5 V on this interface during operation.

### Profibus Interface

In the *un iCOM* menu, under *Profibus* set the bus address (0 to 126; factory setting: 126).

### Ethernet Interface

Enter the required numbers in the *un iCOM* menu under *ETHERNET* > Source IP, Ethernet > ListenPort, etc. Under “Source name” you can enter letters and numbers. Enter up to 15 characters.

### Port numbers

Range: 0 – 65535

Because many of the ports up to 49150 are already allocated, we recommend using numbers higher than 49150. This does not apply for Modbus/TCP, as port number 502 is used here (see the operating instructions for the field bus module).

For additional information, see also the chapter entitled “Settings” in the Combics operating instructions.