

## DC-HI-NET SINGLE x-USB

### 1. Order information DC-HI-NET SINGLE x-USB

DC-HI-NET SINGLE x-USB is interface-compatible with DC-HI-NET SINGLE x-RS. The PC connection and the power supply are made via the USB interface. SINGLE x-USB devices are delivered in a robust metal housing.

For data capture with DC-HI-NET SINGLE x-USB are necessary:

#### 1. One DC-HI-NET SINGLE x-USB **Basic device** (incl. USB connection cable)

- For digital manual measurement devices in any combination
- For measurement devices with RS232/BCD/IEEE interface (on request via special driver configuration)
- For optical-incremental transducers



#### SINGLE M2-USB

- 2 MULTI inputs for digital manual measurement devices with interface DIGIMATIC / OPTO / PROXIMITY / POWER
- Opt.:** RS232 / IW / bt / I/O



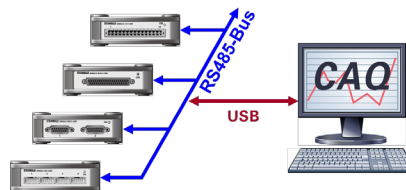
MULTI inputs for digital measurement devices

#### SINGLE M8-USB

- 8 MULTI inputs for digital manual measurement devices with interface DIGIMATIC / OPTO / PROXIMITY / POWER
- Opt.:** RS232 / IW / bt / I/O

#### Option:

Firmware cascading to upgrade up to 78 measurement device inputs.




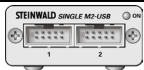
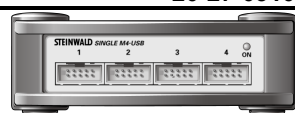
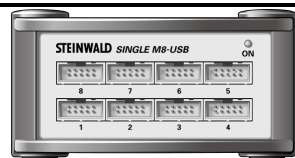
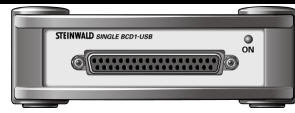
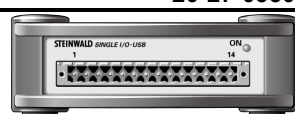
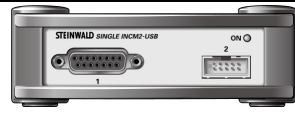
Delivery includes one USB connection cable and one manual.

Download **USB-/COM device driver** for Microsoft Windows® XP / Vista / 7 / 8 / 10 / 11 / Server 2008 R2 / 2012 R2 / 2016: <https://usb.steinwald.com>

### 2. Options

- Control elements for data capture (hand or foot switch)
- Measurement device connection cables
- Software tools (driver, DLL or data capture software)

## 2. Product survey DC-HI-NET SINGLE x-USB

|   |  |  |
|---|--|--|
| <p><b>SINGLE M1-USB</b></p> <p>Connection: 1x DIGIMATIC, OPTO / PROXIMITY / POWER</p> <p>Cable: from STEINWALD</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 26 x 55 x 112 mm (H x W x D)</p>  | <p><b>1x digital manual measuring tools / RS232</b></p> <p>Interface device with one MULTI input for measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. <b>On request: Driver for connection of measurement devices with RS232 interface. Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).</b></p> <p>Incl. USB connection cable</p>  | <p><b>20-27-0321</b></p>    |
| <p><b>SINGLE M2-USB</b></p> <p>Connection: 2x DIGIMATIC, OPTO / PROXIMITY / POWER</p> <p>Cable: from measurement device manufacturer or from STEINWALD</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 26 x 55 x 112 mm (H x W x D)</p>  | <p><b>2x digital manual measuring tools / RS232</b></p> <p>Interface device with two MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. <b>On request: Driver for connection of measurement devices with RS232 interface. Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).</b></p> <p>Incl. USB connection cable</p>   | <p><b>20-27-0300</b></p>    |
| <p><b>SINGLE M4-USB</b></p> <p>Connection: 4x DIGIMATIC, OPTO / PROXIMITY / POWER</p> <p>Cable: from measurement device manufacturer or from STEINWALD</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 40 x 121 x 183 mm (H x W x D)</p>   | <p><b>4x digital manual measuring tools / RS232</b></p> <p>Interface device with four MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. <b>On request: Driver for connection of measurement devices with RS232 interface. Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).</b></p> <p>Incl. USB connection cable</p>  | <p><b>20-27-0310</b></p>    |
| <p><b>SINGLE M8-USB</b></p> <p>Connection: 8x DIGIMATIC, OPTO / PROXIMITY / POWER</p> <p>Cable: from measurement device manufacturer or from STEINWALD</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 62 x 121 x 183 mm (H x W x D)</p>   | <p><b>8x digital manual measuring tools / RS232</b></p> <p>Interface device with eight MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. <b>On request: Driver for connection of measurement devices with RS232 interface. Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).</b></p> <p>Incl. USB connection cable</p>   | <p><b>20-27-0311</b></p>  |
| <p><b>SINGLE BCD1-USB</b></p> <p>Connection: 1x BCD / IEEE</p> <p>Cable: select from "List of measurement devices"</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 40 x 121 x 183 mm (H x W x D)</p>   | <p><b>1x data format BCD / IEEE</b></p> <p>Interface device with one BCD / IEEE interface upon request. <b>Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).</b></p> <p>Incl. USB connection cable</p>   | <p><b>20-27-0500</b></p>  |
| <p><b>SINGLE I/O-USB</b></p> <p>Anschluss: 12 x digital potential-free input / output (up to 24V)</p> <p>Kabel: special version (on request)</p> <p>Size: 40 x 121 x 183 mm (H x W x D)</p>   | <p><b>12 digital inputs and outputs</b></p> <p>Interface device with 12 potential-free digital inputs and outputs for control tasks like relays, end contacts, machine controllers (configuration according demand).</p> <p>Incl. USB connection cable</p>   | <p><b>20-27-0550</b></p>  |
| <p><b>SINGLE INCM2-USB</b></p> <p>Connection: 1x Connection for incremental transducer 1 Vpp<br/>1x DIGIMATIC, OPTO / PROXIMITY / POWER</p> <p>Cable: at the probe (15-pin D-Sub connector)<br/>from measurement device manufacturer or from STEINWALD</p> <p>Data capture: Connector for foot / hand switch</p> <p>Size: 40 x 121 x 183 mm (H x W x D)</p> | <p><b>1x incremental transducer 1 Vpp<br/>1x digital manual measuring tool / RS232</b></p> <p>Interface device with one incremental transducer with sinusoidal voltage interface 1 Vpp, sensor error detection (gauge defective / measuring speed to fast), Interpolation rate adjustable up to 200, input frequency max. 333 KHz <b>as well as</b> one MULTI input for connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER</p> <p>Optional: zero balancing switch</p> <p>Incl. USB connection cable</p> | <p><b>20-27-0720</b></p>  |

## DC-HI-NET SINGLE x-USB

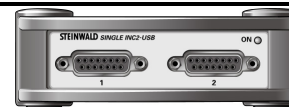
### SINGLE INC2-USB

### 2x incremental transducer 1 Vpp

20-27-0701

Connection: 2x Connection for incremental transducers 1 Vpp at the probe (15-pin D-Sub connector)  
 Cable: Connector for foot / hand switch  
 Data capture: 40 x 121 x 183 mm (H x W x D)  
 Size:

Interface device for two incremental transducers with sinusoidal voltage interface 1 Vpp, Sensor error detection (gauge defective / measuring speed too fast), Interpolation rate adjustable up to 200, input frequency max. 333 KHz, Optional: zero balancing switch  
 Incl. USB connection cable



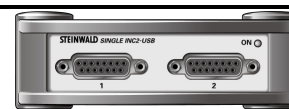
### SINGLE INC2-USB

### 2x incremental transducer 11 μApp

20-27-0711

Connection: 2x Connection for incremental transducers 11 μApp at the probe (15-pin D-Sub connector)  
 Cable: Connector for foot / hand switch  
 Data capture: 40 x 121 x 183 mm (H x W x D)  
 Size:

Interface device for two incremental transducers with sinusoidal current interface 11 μApp, Sensor error detection (gauge defective / measuring speed too fast), Interpolation rate adjustable up to 200, input frequency max. 333 KHz, Optional: zero balancing switch  
 Incl. USB connection cable



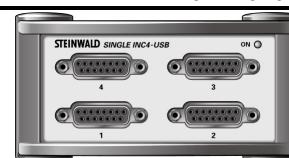
### SINGLE INC4-USB

### 4x incremental transducer 1 Vpp

20-27-0703

Connection: 4x Connection for incremental transducers 1 Vpp at the probe (15-pin D-Sub connector)  
 Cable: Connector for foot / hand switch  
 Data capture: 62 x 121 x 183 mm (H x W x D)  
 Size:

Interface device for four incremental transducers with sinusoidal voltage interface 1 Vpp, Sensor error detection (gauge defective / measuring speed too fast), Interpolation rate adjustable up to 200, input frequency max. 333 KHz, Optional: zero balancing switch  
 Incl. USB connection cable



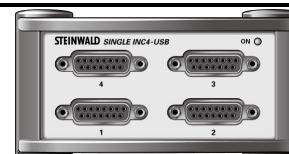
### SINGLE INC4-USB

### 4x incremental transducer 11 μApp

20-27-0713

Connection: 4x Connection for incremental transducers 11 μApp at the probe (15-pin D-Sub connector)  
 Cable: Connector for foot / hand switch  
 Data capture: 62 x 121 x 183 mm (H x W x D)  
 Size:

Interface device for four incremental transducers with sinusoidal current interface 11 μApp, Sensor error detection (gauge defective / measuring speed too fast), Interpolation rate adjustable up to 200, input frequency max. 333 KHz, Optional: zero balancing switch  
 Incl. USB connection cable



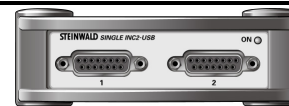
### SINGLE INC2-USB

### 2x incremental transducer TTL / RS422

20-27-0731

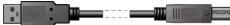
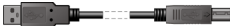

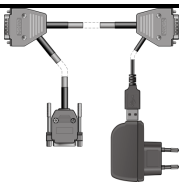
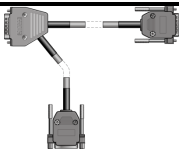

Connection: 2x Connection for incremental transducers TTL / RS422 at the probe (15-pin D-Sub connector)  
 Cable: Connector for foot / hand switch  
 Data capture: 40 x 121 x 183 mm (H x W x D)  
 Size:

Interface device for two incremental transducers with square-wave TTL / RS422 interface, Optional: zero balancing switch  
 Incl. USB connection cable



## DC-HI-NET SINGLE x-USB

### 3. Accessories DC-HI-NET SINGLE x-USB

|   |   |   |
|---|---|---|
| <b>PC (USB)&lt;-&gt;SINGLE x-USB</b>  | <b>Cable to PC</b>  | <b>20-28-2810</b>   |
| Connection: 1x Connection to the PC via USB interface<br>Size: Length 2 m                   | Host connection cable for the PC connection via USB.<br>(Scope of delivery)   |    |
| <b>PC (USB)&lt;-&gt;SINGLE x-USB</b>  | <b>Cable to PC</b>  | <b>20-28-2810/V</b>   |
| Connection: 1x Connection to the PC via USB interface<br>Size: Length 1,8 m                 | Host connection cable ( <b>enlarged conductor cross-section</b> ) for the PC connection via USB.  |    |
| <b>SINGLE x-USB&lt;-&gt;SINGLE x-USB</b>  | <b>Cable between 2 DC-HI-NET SINGLE x-USB</b>   | <b>20-28-2811</b>   |
| Connection: 1x Connection between 2 DC-HI-NET SINGLE x-USB via RS485<br>Size: Length: 0,3 m | Connection cable for serial coupling of two DC-HI-NET SINGLE x-USB via RS485.<br>(Not for SINGLE M1-USB / M2-USB!)  |    |
| <b>SINGLE x-USB&lt;-&gt;SINGLE x-USB</b>  | <b>Cable between DC-HI-NET SINGLE x-USB</b>   | <b>20-28-2814</b>   |
| Connection: 1x Connection between 2 DC-HI-NET SINGLE x-USB via RS485<br>Size: Länge 0,3 m   | Connection cable for coupling <b>two SINGLE x-USB</b> devices <b>incl. plug-in power supply unit (100 V - 240 V) for up to five SINGLE x-USB</b> and cable outlet to the next device. |    |
| <b>SINGLE x-USB&lt;-&gt;SINGLE x-USB</b>  | <b>Kabel zwischen DC-HI-NET SINGLE x-USB</b>  | <b>20-28-2812</b>   |
| Connection: 1x Connection between 2 DC-HI-NET SINGLE x-USB via RS485<br>Size: Länge 0,3 m   | Connection cable for coupling <b>two SINGLE x-USB</b> devices and cable outlet to the next device.  |  |
| <b>Spring clip</b>  | <b>Connection component for cascading</b>   | <b>03-53-0503</b>   |
| Function: Housing connection<br>Size: 40 x 20 x 6 mm (H x W x D)                            | Connection component between two SINGLE x-RS / SINGLE x-USB devices   |  |