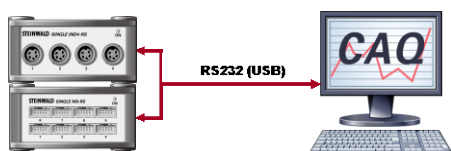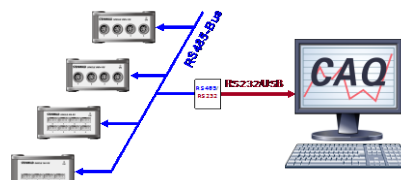# 1. Order information DC-HI-NET SINGLE x-RS

The **DC-HI-NET SINGLE x-RS** device family is interface-compatible with DC-HI-NET SINGLE x-USB. Via the additional cascading firmware the option exists to upgrade to up to 78 measurement device inputs.

Cascading from up to 2 devices via RS232
(Cable 20-28-2829)

Cascading for up to 78 channels via RS485
**(Cable 20-28-2818 + 20-28-2819)**

The devices are delivered in robust metal housing with the following dimensions:

The following components are required for a fixed configuration DC-HI-NET SINGLE x-RS interface device:

1. One DC-HI-NET SINGLE x-RS Basic device

- For digital manual measurement devices in any combination
- For measurement devices with RS232 interface (on request via special driver configuration)
- For inductive probes
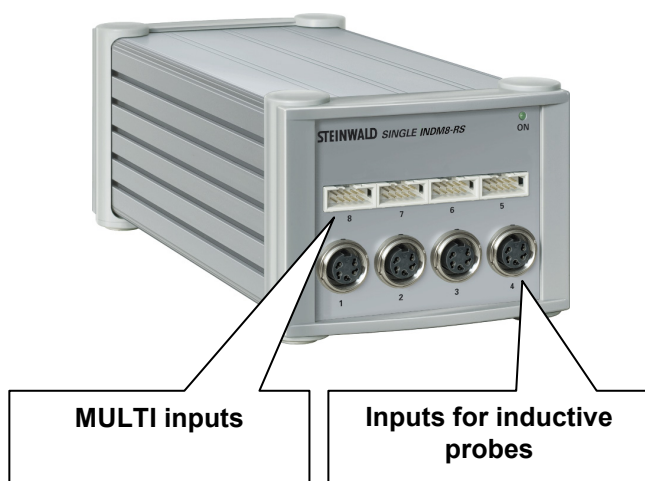
SINGLE INDM8-RS
- 4 inputs for inductive probes
- 4 MULTI inputs for digital manual measurement devices with interface DIGIMATIC / OPTO / PROXIMITY / POWER
- **Opt.:** RS232 / IW / bt / I/O

MULTI inputs

Inputs for inductive probes

Delivery includes power supply cable and one manual.

2. Serial connection cable

- For the data transfer between DC-HI-NET and host computer
- Available for various host computer types (PC, workstation, terminal)

3. 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-RS

SINGLE M4-RS	**4x digital manual measuring tools / RS232**	**20-24-0310**

Connection:	4x DIGIMATIC, OPTO / PROXIMITY / POWER	Interface device with four MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. **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.).**
Cable:	from measurement device manufacturer or from STEINWALD	
Data capture:	Connector for foot / hand switch	
Size:	62 x 121 x 247 mm (H x W x D)	
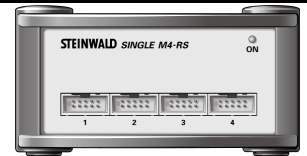
SINGLE M8-RS	**8x digital manual measuring tools / RS232**	**20-24-0311**

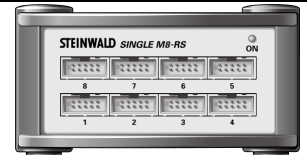|		
Connection:	8x DIGIMATIC, OPTO / PROXIMITY / POWER	Interface device with eight MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER. **On request: Driver for connection of measurement devices with RS232 interface. Select the corresponding driver and compatible devices from the "List of measurement devices" (see app.).**
Cable:	from measurement device manufacturer or from STEINWALD	
Data capture:	Connector for foot / hand switch	
Size:	62 x 121 x 247 mm (H x W x D)	

SINGLE INDM8-RS	**4x inductive half-bridge probes** **4x digital manual measuring tools / RS232**	**20-24-0330**

Connection:	4x Inductive half-bridge probes with Tesa balancing 4x DIGIMATIC, OPTO / PROXIMITY / POWER,	Interface device with four inductive half-bridge probes with Tesa balancing and compatibles **(On request: LVDT probes)**. Resolution: 0,5 µm, precision: ±2 µm at measuring range ±1 mm (depending on probe type) **as well as** four MULTI inputs for the freely combinable connection of measurement devices with Mitutoyo DIGIMATIC type interfaces and Sylvac OPTO / PROXIMITY / POWER **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.).**
Cable:	at the probe from measurement device manufacturer or from STEINWALD	
Data capture:	Connector for foot / hand switch	
Size:	91 x 121 x 247 mm (H x W x D)	
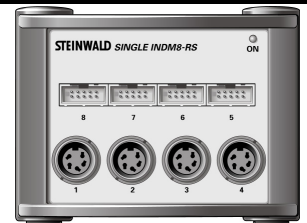
SINGLE IND4-RS	**4x inductive probes**	**20-24-0815**

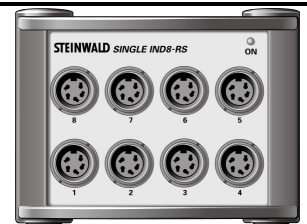|		
Connection:	4x Inductive half-bridge probes with Tesa balancing	Interface device for 4 inductive half-bridge probes with Tesa balancing and compatibles **(On request: LVDT probes)**. Resolution: 0,5 µm, precision: ±3 µm at measuring range ±1 mm (depending on probe type)
Cable:	at the probe	
Data capture:	Connector for foot / hand switch	
Size:	62 x 121 x 247 mm (H x W x D)	
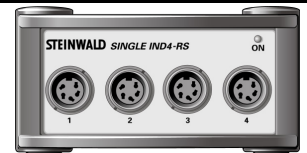
SINGLE IND8-RS	**8x inductive probes**	**20-24-0816**
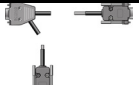
Connection:	8x Inductive half-bridge probes with Tesa balancing	Interface device for 8 inductive half-bridge probes with Tesa balancing and compatibles **(On request: LVDT probes)**. Resolution: 0,5 µm, precision: ±3 µm at measuring range ±1 mm (depending on probe type)
Cable:	at the probe	
Data capture:	Connector for foot / hand switch	
Size:	91 x 121 x 247 mm (H x W x D)	

3. Accessories DC-HI-NET SINGLE x-RS

PC (9-pin)<->DC-HI-NET		**Cable to PC**	**20-28-2821**
Connection:	1x Connection to the PC via serial interface	Host connection cable for the serial PC connection via RS232 8- pin round cable, screened, with 9-pin D-Sub connector	
Size:	Length: 2 m		

PC (9-pin)<->2x SINGLE x-RS		**Cable to PC**	**20-28-2829**
Connection:	1x Connection of 2 DC-HI-NET to PC via serial interface	Host computer cable for serial PC connection of 2 DC-HI-NET SINGLE x-RS via RS232	
Size:	Length: 2 m	Round cable, shielded, 9-pin D-Sub connector	

PC (9-pin)<->SINGLE x-RS		**Cable to PC**	**20-28-2818**
Connection:	1x Connection of RS485-BUS to PC via serial interface	Host computer cable for serial PC connection via RS485-BUS cascaded DC-HI-NET SINGLE RS devices via RS232, includes adapter RS232<->RS485	
Size:	Length: 2 m	Round cable, shielded, 9-pin D-Sub connector	

SINGLE x-RS<->SINGLE x-RS		**Cable between 2 DC-HI-NET SINGLE x-RS**	**20-28-2819**
Connection:	1x Connection between 2 DC-HI-NET SINGLE x- RS via RS485	Connection cable for serial coupling of two DC-HI-NET SINGLE x-RS via RS485.	
Size:	Length: 2 m		

USB<->DC-HI-NET		**Adapter cable RS232/USB**	**20-00-0306**
Connection:	1x Connection to PC via USB interface	Adapter cable for connecting DC-HI-NET to a PC with USB interface via STEINWALD cable 20-28-2821/-2829/-2818 (USB driver download at: https://usb.steinwald.com)	
Size:	Length 0,8 m		

Spring clip		**Connection component for cascading**	**03-53-0503**
Function:	Housing connection	Connection component between two SINGLE x-RS / SINGLE x-USB devices	
Size:	40 x 20 x 6 mm (H x W x D)		