



# AS-Interface Handheld VBP-HH1-V3.0

- Addressing and programming AS-Interface nodes
- Displaying the assigned node addresses and the status of the inputs
- Setting outputs at the AS-Interface node
- Also supports profiles S-7.7.A.7 (Spec 3.0), S-0.B and S-7.B (AS Interface Safety at Work)
- The node connection is short-circuit and overload proof
- Battery charger included with delivery

## AS-Interface Handheld



## Function

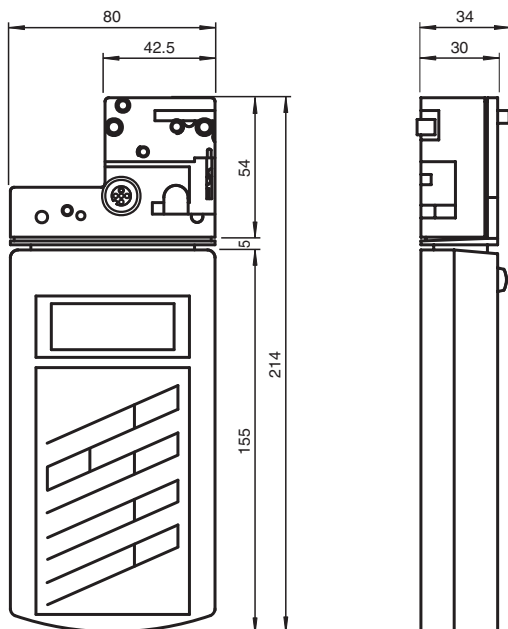
The AS-Interface handheld VBP-HH1-V3.0 is an addressing device according to the AS-Interface specification 3.0. This addressing device can be used to program AS-Interface nodes and to test part of their functions. In addition, new functions have been incorporated:

- Permanent data exchange with AS-Interface nodes
- Support of the data exchange with 4E4A nodes in ext. addressing mode
- Indication of the safety code for AS-Interface Safety at Work nodes

The AS-Interface connection adapter on the top of the addressing device is used for connecting AS-Interface nodes such as sensors, actuators and modules to the addressing device. The following devices and designs can be connected to the addressing device by directly plugging it onto the AS-Interface connection adapter:

Devices with M12 connector, VariKont M-system, VariKont system, FP design, AS-Interface modules of the types G1 and G4. For device designs with integrated addressing socket, use the optional adapter cable.

## Dimensions



## Technical Data

### General specifications

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| AS-Interface specification | V3.0                                                              |
| Operating mode             | Plug-in charging unit, 230 V AC, included in the delivery package |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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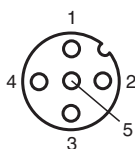
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## Technical Data

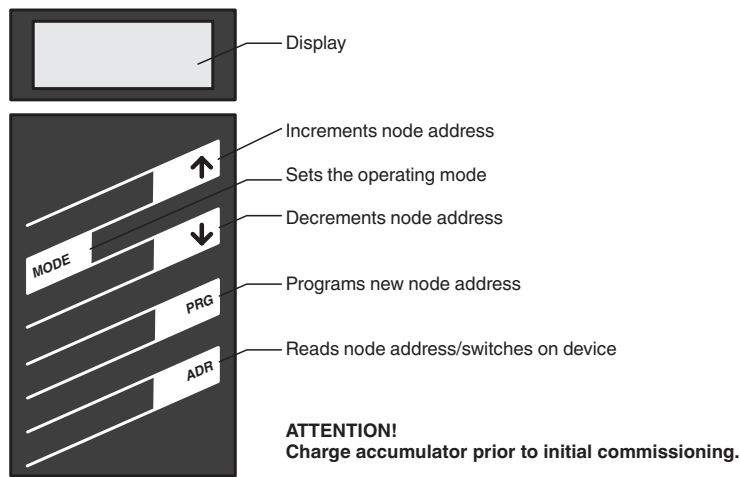
|                                   |  |                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Indicators/operating means</b> |  |                                                                                                                                                                                                                                                                                                                  |
| Display                           |  | LC display                                                                                                                                                                                                                                                                                                       |
| Keyboard                          |  | membrane keys, 5 keys                                                                                                                                                                                                                                                                                            |
| <b>Electrical specifications</b>  |  |                                                                                                                                                                                                                                                                                                                  |
| Operating duration                |  | 8 h or $\geq 250$ read/write procedures for fully charged battery                                                                                                                                                                                                                                                |
| Power supply                      |  | battery mode, please use only battery charger included with delivery to charge (charging time about 14 h)                                                                                                                                                                                                        |
| <b>Interface</b>                  |  |                                                                                                                                                                                                                                                                                                                  |
| Interface type                    |  | AS-Interface, short-circuit proof and overload-proof, or optical                                                                                                                                                                                                                                                 |
| Open loop voltage                 |  | 28 V                                                                                                                                                                                                                                                                                                             |
| Load current                      |  | 100 mA at 25 V                                                                                                                                                                                                                                                                                                   |
| <b>Directive conformity</b>       |  |                                                                                                                                                                                                                                                                                                                  |
| Electromagnetic compatibility     |  |                                                                                                                                                                                                                                                                                                                  |
| Directive 2014/30/EU              |  | Handheld: EN 61326-1:2013<br>Plug-in charging unit EN 61000-3-2:2014 , EN 61000-3-3:2013 , EN 61000-4-2:2009 , EN 61000-4-3:2006+A1:2008+A2:2010, EN 61000-4-4:2012, EN 61000-4-5:2014+A1:2017, EN 61000-4-6:2014+AC:2015, EN 61000-4-8:2010, EN 61000-4-11:2004+A1:2017 , EN 55032:2015+AC:2016 , EN 55035:2017 |
| Low voltage                       |  |                                                                                                                                                                                                                                                                                                                  |
| Directive 2014/35/EU              |  | Plug-in charging unit EN 62368-1:2014+A11:2017                                                                                                                                                                                                                                                                   |
| <b>Standard conformity</b>        |  |                                                                                                                                                                                                                                                                                                                  |
| Degree of protection              |  | EN 60529:2000                                                                                                                                                                                                                                                                                                    |
| Electrical safety                 |  | Plug-in charging unit EN 62368-1:2014+A11:2017                                                                                                                                                                                                                                                                   |
| Emitted interference              |  | Handheld: EN 61326-1:2013<br>Plug-in charging unit EN 55032:2015+AC:2016 , EN 55035:2017                                                                                                                                                                                                                         |
| Noise immunity                    |  | Handheld: EN 61326-1:2013<br>Plug-in charging unit EN 61000-3-2:2014 , EN 61000-3-3:2013                                                                                                                                                                                                                         |
| <b>Ambient conditions</b>         |  |                                                                                                                                                                                                                                                                                                                  |
| Ambient temperature               |  | 0 ... 40 °C (32 ... 104 °F)                                                                                                                                                                                                                                                                                      |
| Storage temperature               |  | -20 ... 40 °C (-4 ... 104 °F)                                                                                                                                                                                                                                                                                    |
| <b>Mechanical specifications</b>  |  |                                                                                                                                                                                                                                                                                                                  |
| Degree of protection              |  | IP20                                                                                                                                                                                                                                                                                                             |
| Material                          |  |                                                                                                                                                                                                                                                                                                                  |
| Housing                           |  | plastic                                                                                                                                                                                                                                                                                                          |
| Mass                              |  | approx. 610 g                                                                                                                                                                                                                                                                                                    |
| Dimensions                        |  |                                                                                                                                                                                                                                                                                                                  |
| Height                            |  | 34 mm                                                                                                                                                                                                                                                                                                            |
| Width                             |  | 80 mm                                                                                                                                                                                                                                                                                                            |
| Length                            |  | 214 mm                                                                                                                                                                                                                                                                                                           |

## Connection



- 1 AS-Interface +
- 2 Digital input for optical addressing adapters
- 3 AS-Interface -
- 4 Digital output for optical addressing adapters
- 5 Voltage supply for optical addressing adapters

Assembly



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