# 10 Specification

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|---|---|---|
| **Measuring range** | | 0.00 ... 14.00 pH or see 2.2 Type plate |
| **Output signal** | | See 2.2 Type plate |
| **Accuracy:** device at nominal temperature | | |
| | **Display** | ±0.02 pH ±1 digit |
| | **Output signal** | ±0.2 % FS |
| **Connection** | | 4 - 20 mA ->2-wire see chapter 4 Assignment of elbow-type plug |
| | | Voltage ->3- resp. 4-wire see chapter 4 Assignment of elbow-type plug |
| **Electric isolation** | | input electrically isolated |
| **Auxiliary energy:** supply voltage | | Uv = 12 - 30 V DC (4-20mA) |
| | | Uv = 18 - 30 V DC (0-10V) |
| | | or refer to type plate |
| **Reverse voltage protection** | | 50V permanent |
| **Perm. impedance** at 4-20mA | | $R_L$(Ohm) > 3000 Ohm |
| | | Example: for Uv = 18V: $R_A$ < (18V - 12V) / 0.02A => $R_A$ < 300 Ohm |
| **Permissible load** at 0-...V | | $R_L$(Ohm) > 3000 Ohm |
| **Electrode** | | Any pH electrode of our program is suitable. - refer to suitable socket!<br>Electrode is not included in scope of supply! |
| **Input resistance** | | $10^{12}$ Ohm |
| **Electrode socket** | | BNC-socket |
| **Temperature compensation** | | -30 ... 150 °C |
| **Temperature probe input** | | Manually by means of 2 |
| | | Automatically when Pt1000 temperature probe is connected |
| **Temperature sensor socket** | | 2 x banana plug Ø4mm |
| **Calibration** | | via 3 keys and integrated LCD |
| | **Acceptable electrode data** | asymmetry: approx. ±50 mV |
| | | slope: approx. 45 ... 62 mV/pH |
| **Display** | | approx. 10 mm high, 3½-digit LCD-display |
| **Nominal temperature** | | 25 °C |
| **Operating temperature** | | 0 … 50 °C |
| **Relative humidity** | | 0 … 95 % RH non-condensing |
| **Storage temperature** | | -20 ... 70 °C |
| **Housing** | | ABS. IP65 - with the exception of electrode and temperature probe connection sockets |
| **Dimensions** | | 82 x 80 x 55 mm. Without elbow-type plug and sensor sockets |
| **Mounting** | | With fixing holes for wall mounting. In housing - accessible after cover has been removed |
| **Mounting distance** | | 50 x 70 mm, max. shaft diameter of mounting screws is 4 mm |
| **Electric connection** | | elbow-type plug conforming to DIN 43650 (IP65) |
| | | Maximum wire cross section: 1.5 mm² |
| | | Wire/cable diameter from 4.5 to 7 mm |
| **Directives / standards** | | The device confirm to following European directives: |
| | | 2014/30/EU: EMC directive |
| | | 2011/65/EU: RoHS |
| | | Applied harmonized standards |
| | | EN 61326-1 : 2013: Emission level: Class B<br>EMI immunity according to table 2<br>Additional fault: <1% |