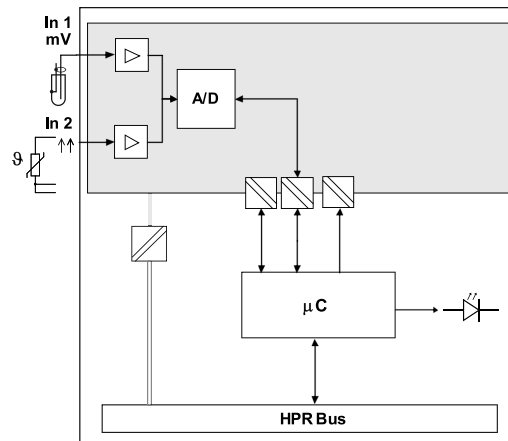


HE 5842

HIMOD analogue input module pH-value / temperature

1 x pH-sensor, 1 x resistance thermometer



The analogue input module (pH-value / temperature) HE 5842 acquires up to two analogue measured values from thermocouples (lambda probes) as well as up to two measured values from high-resistance voltage sources. In the event of service, the module can be exchanged quickly and without complications in running operation (Hot Swap). The temperature compensation takes place directly in the module. In addition a cold junction compensation with a constant value or with measured cold junction can be

connected. The signal status of the inputs is indicated via status-LEDs. The areas of power supply voltage, field bus, logics and inputs are isolated galvanically from each other. In the event of error the modules operate with previously predefined error values, in order to ensure safe process control (Fail Safe).

Current versions of the associated software SmartControl as well as other information can be found at www.hesch.de

| TECHNICAL DATA | |
|--|---|
| Power supply | Over internal T-bus: 24 V DC / 7.5 V DC |
| Current consumption | Max. 55 mA at 24 V / max. 50 mA at 7.5 V |
| Electrical isolation | 2300 V _{eff} [(supply, logics) / channels] |
| Temperature input: | |
| Sensor, value range | Resistance thermometer Pt100/Pt1000, -50...200 °C |
| Measuring current | 500 µA (Pt100), 50 µA (Pt1000) |
| Accuracy | ≤ 0.5 K |
| Temperature influence | ≤ 0.08 % / 10 K |
| pH-value input: | |
| Sensor, value range | Combined measuring and reference electrode, voltage input ± 900 mV = 0...14 pH |
| Input impedance | R _i ≥ 10 ¹² Ω |
| Accuracy | ≤ 0.02 pH |
| Temperature influence | ≤ 0.05 % / 10 K |
| Converter resolution / conversion time | 16 bit / 160 ms |
| Error detection | Sensor breakage short-circuit detection |
| Diagnostic display: | |
| 2 x yellow LEDs | Status of the inputs |
| 2 x red LEDs | Sensor fault |
| 1 x 2-colour LED | Module status |
| Wiring technique: | Screw / plug terminals, conductor cross-section 0.2...2.5 mm ² Spring clamp / plug terminals, conductor cross-section 0.2...2.5 mm ² |
| Weight | 150 g |

| ORDERING DATA | ORDER NUMBER | PU |
|--|--------------|----|
| HE 5842, Pt1000, CE, screw terminal | 58420000 | 1 |
| HE 5842, Pt1000/Pt100, CE, screw terminal | 58421000 | 1 |
| HE 5842, Pt1000, CE, spring clamp terminal | 58423000 | 1 |
| HE 5842, Pt1000/Pt100, CE, spring clamp terminal | 58424000 | 1 |

| ACCESSORIES | ORDER NUMBER | PU |
|-----------------------|--------------|----|
| Screw plug terminal | 133332 | 10 |
| Spring clamp terminal | 133331 | 10 |
| T-bus connector | 38100150 | 10 |

| APPROVAL | |
|--------------------|----|
| Conformity marking | CE |

Technical alterations reserved