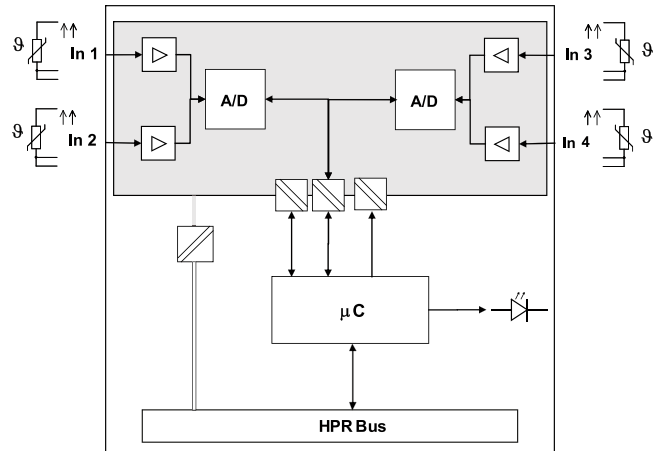


# HE 5840

## HIMOD RTD input module 4 x RTD 4 x resistance thermometer, RTD 3-wire



The RTD input module HE 5840 acquires up to four analogue signals from resistance thermometers and transmits these to the higher-level bus system. The connection is carried out with 3-wire wiring technique. The communication with the bus coupler takes place over an asynchronous serial RS-485 connection. In the event of service, the module can be exchanged quickly and without complications in running operation (Hot Swap). 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 pre-defined 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](http://www.hesch.de)

TECHNICAL DATA	
Power supply	Over internal T-bus: 24 V DC / 7.5 V DC
Current consumption	Max. 50 mA at 24 V / max. 55 mA at 7.5 V
Electrical isolation	2300 V <sub>off</sub> [(supply, logics) / channels]
Resistance thermometer:	
Sensor type	Pt100/Pt1000 / Ni100/Ni1000 / KTY 11-6
Type of connection	In each case 3-wire technique
Temperature range	Pt-type: -200...850 °C / Ni-type: -60...300 °C / KTY: -50...125 °C
Measuring current	Pt100/Ni100: 500 µA / Pt1000/Ni1000/ KTY: 50 µA
Accuracy	≤ 1 K
Temperature drift	≤ 0.08 % / 10 K
Converter resolution / conversion time	16 bit / 160 ms
Error detection	Sensor breakage short-circuit detection
Measured value correction	Unwanted influences can be compensated with offset value
Diagnostic display:	
4 x yellow LEDs	Status of the inputs
4 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 <sup>2</sup> Spring clamp / plug terminals, conductor cross-section 0.2...2.5 mm <sup>2</sup>
Weight	150 g

ORDERING DATA	ORDER NUMBER	PU
HE 5840, Pt100, CE, screw terminal	58400000	1
HE 5840, Pt1000, CE, screw terminal	58401000	1
HE 5840, Pt100/Pt1000, CE, screw terminal	58402000	1
HE 5840, Pt100, CE, spring clamp terminal	58403000	1
HE 5840, Pt1000, CE, spring clamp terminal	58404000	1
HE 5840, Pt100/Pt1000, CE, spring clamp terminal	58405000	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