

HE 5861

HIMOD strain gauge module

Measuring transducer for strain gauges and pressure sensors



The strain gauges module HE 5861 acquires the measured value from load cells, strain gauges or from mass pressure sensors. In the event of service, the module can be exchanged quickly and without complications in running operation (Hot Swap). The process values are represented on an LCD. Strain gauges are evaluated with a resolution of 23 Bit. There is one analogue universal output (14 Bit) with parallel current and voltage signal and two relays for limit monitoring. The areas of power supply vol-

tage, 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). Configuration and parameter-setting of the measuring transducer can take place via the SmartPort interface.

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. 250 mA at 24 V / max. 100 mA at 7.5 V
Electrical isolation (-2300 V _{eff} / -500 V _{eff})	Supply // relay-OUT // (logics / inputs / outputs)
DMS signal input:	
Version	4-/6-wire connection for strain gauges, with supply 10 V max. 125 mA
Resolution / scanning time	23 bit / 50 ms
Sensitivity	0.5, 1, 2, 4 mV/V
Digital input	switchable with 5 V DC, 0.5 mA. Selectable function
Relay outputs OUT1, OUT2	2 x make contacts, loadable with 500 VA, 250 V, 2 A, ohmic load
Analogue output:	
Resolution	14 bit
Voltage output	0 / 2...10V, load ≥ 2 kΩ, accuracy ≤ 0.1 %, no short-circuit-proof
Current output	0/4...20 mA, load ≤ 600 Ω, accuracy ≤ 0.1 %, short-circuit-proof
Startup time	≤ 20 min
Front interface	"SmartPort", for configuration
Control elements	3 x buttons, diverse inputs
Diagnostic display:	
1 x LCD	2-line, 4-/5-digits, diverse indications
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

Technical alterations reserved

ORDERING DATA	ORDER NUMBER	PU
HE 5861, CE, screw terminal	58610000	1
HE 5861, CE, spring clamp terminal	58613000	1

ACCESSORIES	ORDER NUMBER	PU
SmartControl configuration environment	58510000	1
USB connection cord	58513000	1
Screw plug terminal	133332	10
Spring clamp terminal	133331	10
T-bus connector	38100150	10

APPROVAL	
Conformity marking	CE