

4-channel Analogue Output



0/4-20mA with HART®

802-HO-04

- ◆ output signal 0/4 to 20mA for actuators
- ◆ short and break detection
- ◆ electrical isolation between output/bus and output/power
- ◆ output with common ground
- ◆ 4 channel, EEx ia II C
- ◆ HART® pass-through
- ◆ HART® process and status variable reporting

MODULE SPECIFICATION

See also System Specification

OUTPUT

Output current0/4 to 20 mA
 Range0 to 24 mA
 Load700 ohm (20 mA)
 Short-circuit detection< 30 ohm
 Line-break detection>15 V

EXPLOSION PROTECTION

Certificate numberPTB 02 ATEX 2168
 Max. short-circuit current $I_0 = 93 \text{ mA}$
 Voltage $U_0 = 22.1 \text{ V}$
 Performance $P_0 = 406 \text{ mW}$
 External inductance $L_0 = 1.78 \text{ mH}$
 External capacitance $C_0 = 100 \text{ nF}$

DIAGNOSTIC INFORMATION

System/Module power onLED green / red
 Line break or short circuitLED 1 to 4, red
Via fieldbus

Break, shortper channel
 Over/under-rangeper channel
 Simulationper channel
 Communication, hardwarefor each I/O module

CHARACTERISTICS AT RATED CONDITIONS

Accuracy incl. nonlinearity< 0.1 %
 Digital Accuracy13 bit
 Linearity< 0.05 %
 Temperature effect< 0.05 % / 10 K
 Response time50 ms (10% -> 90%)
200 ms for HART
 Total power consumption2.5 W

