

8-channel Analog Output



4–20 mA with HART®

8102-HO-IP

- ◆ 8 single-ended 4-20 mA output channels
- ◆ non-incendive field circuits
- ◆ HART pass-through
- ◆ HART variable and status reporting
- ◆ valve positioners and remote indicators, etc.
- ◆ open circuit detection on each channel
- ◆ 24 V dc bussed field power required

MODULE SPECIFICATION

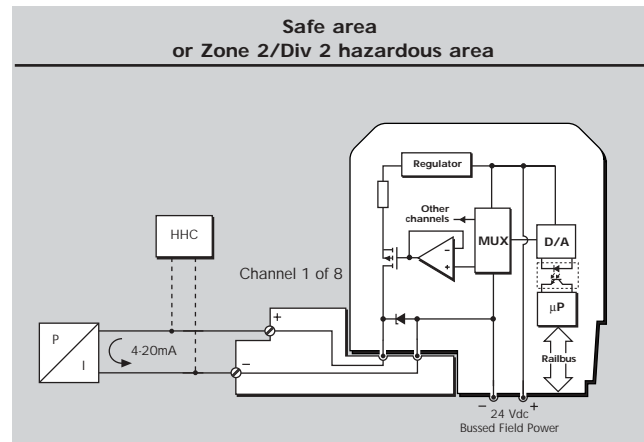
See also System Specification

INPUTS

Number of channels8, single-ended
Nominal signal range (span)4 to 20 mA
Full signal range1 to 23 mA
Open loop detection threshold 0.7 ± 0.25 mA
Output compliance20 mA at 21.6 V dc supply
(into 700 Ω load)
Accuracy (over temp range) $\pm 0.25\%$ of span
Resolution12 bits
Isolation
 (any channel to Railbus)100 V ac
 (between channels)none

CONFIGURABLE PARAMETERS

Initialisation statepredefined value
Drive on fail-safepredefined value/last value
Channel statusactive /inactive
HART variable and status reportingenable /disable



RESPONSE TIME

Signal change to availability on Railbus

4–20 mA mode25 ms (max.)
 HART mode0.75 s per channel

SAFETY

FM non-incendive field wiring parameters (each channel)
 $V_{oc} = 28.7$ V; $I_{sc} = 33$ mA; $C_a = 0.17$ μ F; $L_a = 11.0$ mH

POWER SUPPLIES

Railbus (12V) current100 mA (typ.)
150 mA (max.)
Bussed Field Power300 mA (max.) at 24 Vdc $\pm 10\%$

MECHANICAL

Module Key CodeA4
Module width42 mm
Weight200 g

FIELD TERMINALS

Field wiring	Recommended Field Terminal	Compatible Field Terminal
General Purpose	8602-FT-ST Standard	8604-FT-FU Fused
Class 1, Div 2 or Zone 2 hazardous area	8601-FT-NI Non-incendive	8603-FT-FU Non-incendive Fused

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