

Hazardous area, Current Loop Repeater / Supply, type DAT 5030

Features:

- Protection mode: II (1) G D [Ex ia] IIC - [Ex iaD] according to the Directive ATEX 94/9/EC;
- Power supply for current loop in hazardous area (ZONE 0);
- 0-20mA or 4-20mA active or passive configurable input;
- 0-10V, 2-10V, 0-20mA, 4-20mA configurable output;
- DIP – switch configurable;
- Single or Double Channel;
- HART Compatible on request;
- 2000 Vac galvanic isolation between input and output;
- EMC compliance – CE mark;
- DIN rail mounting suitable;



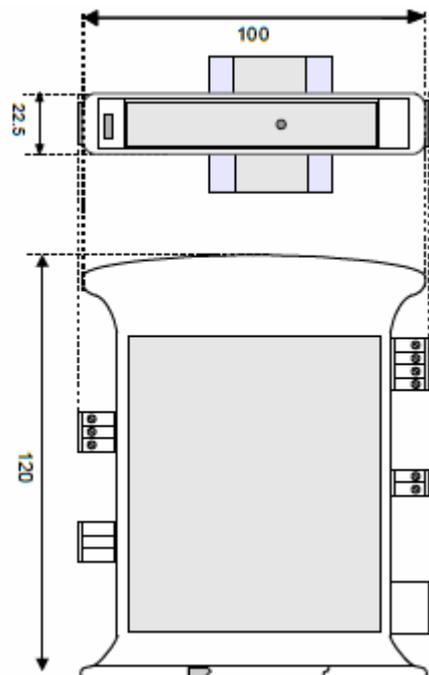
Applications:

- Monitoring and controlling in control processes, automatic systems, energy management, etc.

Technical specifications:

Input signal (active or passive)	4-20mA or 4-20mA
Zero regulation	± 5%
Span regulation	± 5%
Auxiliary supply for input	> 15V @ 20mA
Input impedance	< 25Ω
Output signal	4-20 / 0-20mA, 0-10 / 2-10V
Load resistance	> 5KΩ for voltage < 500Ω for loop current
Auxiliary supply for output	> 12V @ 20mA
Supply voltage	20 ÷ 30Vdc
Current consumption	80mA per channel with Vaux.
Polarity inverted protection	Max. 60Vdc
Calibration error	± 0.1% f.s.
Linearity error*	± 0.2% f.s.
Response time	< 0.2 sec
Frequency response (HART protocol)	Bidirectional 0.5 ÷ 4KHz @ 3dB
Isolation voltage input/output	2000Vac @ 50Hz, 1min
Isolation voltage input/supply	2000Vac @ 50Hz, 1min
Isolation voltage supply/output	1500Vac @ 50Hz, 1min
Isolation voltage between channels	2000Vac @ 50Hz, 1min
Operating temperature	-20 ÷ 60°C
Storage temperature	-40 ÷ 85°C
Relative humidity (not condensed)	0 ÷ 90%
Weight	~ 100g per single channel ~ 160g per double channel
Immunity EMC	EN 61000-6-2
Emission EMC	EN 61000-6-4

Dimensions (mm):



* inclusive of hysteresis, power supply variation and linearisation error;