

4-20 mA LOOP DUPLICATOR

μCv 12



- **Universal power supply:**
20 to 250 Vac and 20 to 250 Vdc
- **1 analog input 4-20mA**
- **2 isolated analog outputs 4-20mA**

- Average response time: 150ms

Supply for 2-wire sensor
Sensor break detection if $i < 3\text{mA}$ (return value 0mA).
Isolation input / outputs / supply.
Self-zero and self-diagnosis



Features

Inputs

Types of INPUT	Measure range adjustable from:	Permanent overload	Intrinsic error	Console resolution	Input impedance
mA	4-20 mA	$\pm 100\text{mA}$	$< \pm 0.05\%$ of the MR	10 μA	Max. drop 0.9V

MR Measure range

Thermal drift $< 150\text{ppm}/^\circ\text{C}$

Outputs

Type of OUTPUTS	Features
2 analog (isolated from one another) Active/passive current	Current: Direct or reversed 0-20mA Load impedance $\leq L_r 600\Omega$

Response time of the outputs:

(for a variation from 0 to 90% of the input signal)

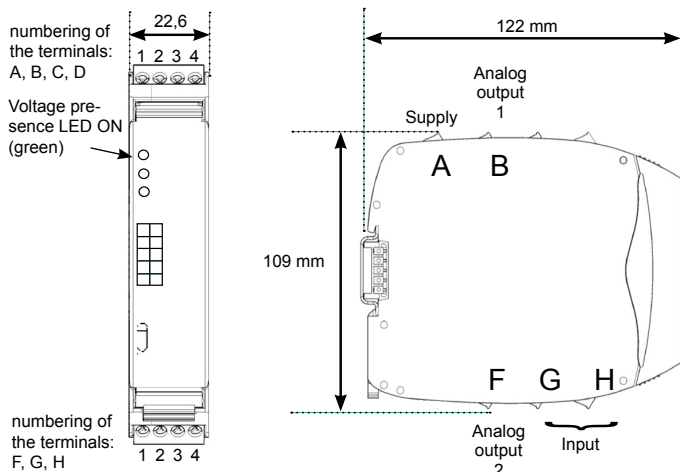
Average response time: 150 ms

Add 40 ms for the response time on the analog outputs

Galvanic isolation:

3.0kV-50Hz-1min. between Supply, Input and Analog outputs

Dimensions



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Supply: 20 to 250 Vac and 20 to 250Vdc

Power draw: 2.8 W max. 8 VA max.

Dielectric withstanding: 3.0 kV-50Hz-1min.

Operating temperature: -20 to +60°C

Storage temperature: -20 to +70°C

Installation: Pollution degree 2 / voltage surge II

Protection: case / terminals: IP 20

Removable terminal blocks for screwed connections

(2.5 mm², flexible or rigid)

Weight: 290g (with packaging)

Self-extinguishing case of black UL 94VO PA66.

Mounting in switchbox: latching on symmetrical DIN rail.

Compliance with standards:

Directive LV 2014/35/UE EN 61010-1

Standard for UL electrical safety UL 61010-1

..... CSA C22.2 NO.61010-1-12

Directive ATEX 2014/34/UE area 2 EN 60079-0

..... EN 60079-15

Directive EMC 2014/30/UE EN 61326-1

Marking:



II 3 G Ex nA IIC T4 Gc



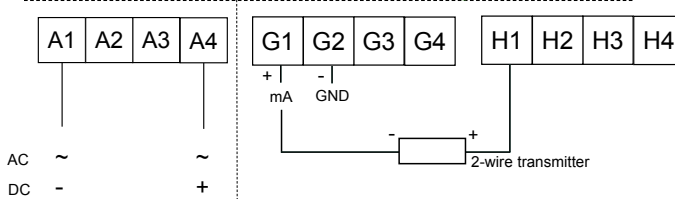
Process
Control
Equipment
E482453

Connectings

Upper connectors

Supply

Inputs



Lower connector

Analog output 1

Analog output 2

