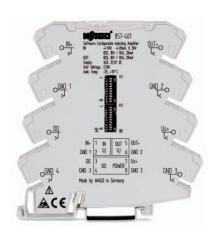
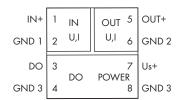
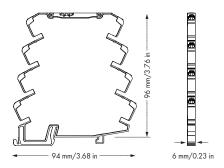
# JUMPFLEX® Transducers

## Isolation amplifier, configurable with digital output









### Short description:

The software-configurable 857-401 Isolation Amplifier is used to convert, amplify, filter and electrically isolate analog standard signals. The device has a 3-way isolation with a 2.5kV test voltage. DIP switches accessible from the side can be used to configure the signals in both input and output. In addition to standard signals, bipolar ( $\pm$  10V,  $\pm$  20mA) and 0 to 30V signals

In addition to standard signals, bipolar (± 10V, ± 20mA) and 0 to 30V signals can also be set on the input side. The analog output supports standard unipolar signals. In addition, the devices can be configured using FDT/DTM software. The software offers additional setting options such as special input and output signal combinations with intermediate values or inversion of the analog output. Measurement range switching is calibrated. A digital switching output is available that can also be configured using software.

The device is supplied with 24VDC, which can be commoned using lateral push-in type jumper bars in a quick and cost effective way. A green LED on the front panel indicates normal operation. The isolation amplifier meets the requirements for safe isolation of input, output and supply circuits with 2.5kV test voltage according to EN 61140.

Description	Item No.	Pack. Unit
Isolation amplifier, configurable	857-401	1
with digital output		
Accessories		
Configuration software	- 759-370 FDT Frame Application	
	- DTM (Device Tool Manager)	
	Download: see www.wago.com	
WAGO USB Service Cable	750-923	
General accessories	see pages 222 - 223	
	-	
Approvals		
Shipbuilding	(pending)	
	Class I Div2 ABCD T4	
Conformity marking	C€	
General Specifications		
Dimensions (mm) W x H x L	6 x 96 x 94	
	Height from upper-edge of DI	N 35 rail
Wire connection	CAGE CLAMP®S	
Cross sections	solid: 0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> /	
	AWG 28 12	
	fine-stranded: 0.34 mm <sup>2</sup> 2	5 mm <sup>2</sup> /
	AWG 22 12	
Stripped lengths	9 10 mm / 0.37 in	

Technical Data		
Configuration	DIP switch or configuration software	
Input signal	-10 +10 V, -20 +20 mA, 0 +30 V	
Max. input signal	$(31.2 \text{ V } (U_{IN}) 100 \text{ mA } (I_{IN})$	
Input resistance	$\leq$ 200 $\Omega$ (I input)	
	> 100 kΩ (U input)	
Output signal	0 20 mA, 4 20 mA,	
	0 10 V, 2 10 V, 0 5 V, 1 5 V,	
	0 10 mA, 2 10 mA	
Load impedance	≤ 600 Ω (I output)	
	≥ 2 kΩ (U output)	
Step response	≤ 8 ms	
Voltage supply V <sub>N</sub>	24 V DC	
Supply voltage range	16.8 V 31.2 V	
Current input at 24 V DC	< 40 mA	
Transmission error	< 0.1 % of upper range value	
Temperature coefficient	0.01 % /K	
Min. measuring span	1 V, 2 mA (configurable)	
Output - Digital		
Max. switching voltage	Supply voltage applied	
Max. continuous current	500 mA (up to 60 °C)	
	100 mA (60 °C 70 °C)	
Test voltage		
(input/output/supply)	2.5 kV AC, 50 Hz, 1 min.	
Ambient operating temperature	-25 °C +70 °C	
Storage temperature	-40 °C +85 °C	



### **DIP Switch Adjustability** 857-401 ● = ON Input Signal Start Value End Value DIP S1 2 3 4 5 6 7 ٧ mΑ 2 3 4 7 ٧ 8 9 10 1 2 3 ٧ mΑ 8 9 10 1 2 3 ٧ mΑ 0 0 • 5.5 11 10 11 Voltage 20 5.5 Current -10 -20 6 12 -10 -20 • 6 12 -9.5 -19 6.5 13 -9.5 -19 6.5 13 • • -9 -18 • • • 7 14 • • -9 -18 • • 7 14 -17 7.5 15 -17 7.5 15 -8.5 -8.5 -8 -16 8 16 -8 -16 8 16 • • -7.5 -15 • • 8.5 17 • • -7.5 -15 • 8.5 17 -7 • • -7 -14 • • 9 18 • • -14 • 18 9 -6.5 -13 9.5 19 -6.5 -13 9.5 19 -6 -12 10 20 -12 10 20 -6 • • • • -5.5 -11 • 10.5 -5.5 -11 • • 10.5 • -10 • -10 • • • -5 • • 11 • • -5 • • • 11 • -9 • -4.5 • • 11.5 • -4.5 -9 • 11.5 • -4 -8 12 • -4 -8 12 • • • -3.5 -7 • • 13 • • • -3.5 -7 • • 13 • • -3 • • • • 14 • -6 • 14 • • -3 • -6 -2.5 -5 15 -2.5 -5 • • -2 -4 • • • -2 -4 • 16 -1.5 -3 • • • 17 -1.5 -3 • 17 -1 -2 -1 -2 • 18 • • • • 18 • • • -1 • -0.5 -1 19 • • • • 0 0 20 0 0 • • • 20 0.5 21 0.5 • • • • • • 21 • • • 1 2 • • 22 • 1 2 22 • 1.5 3 • • 23 • 1.5 3 • 23 • • • 2 4 • • • 24 • • • 2 4 • • • • 24 • • 2.5 5 • • • • 2.5 5 • • • 25 25 3 6 26 3 6 26 • • 3.5 7 • • • • 27 • • • 3.5 • • • 27 • • • 4 8 • • • • • 4 8 • • • 28 28 4.5 9 • • 4.5 9 • • • • • • • • • 29 • • • • 29 • • • 5 10 • • • • • 5 10 • Default Settings Measuring Range Overflow Measuring Range Underflow Measuring Range Underflow Signalisation\* In delivery status all DIP switches are in the position "OFF". 10 0 ... 20 mA DO Us+ switched not active Input 4 ... 20 mA DO GND switched active - Input signal: Voltage 0 ... 10 mA - Start value: 0 V Upper limit of output range +2.5% - End value: 10 V • • 2 ... 10 mA Output 0 ... 10 V - Output signal: Current - Start value: 0 mA . 0 ... 5 V Upper limit of output range Lower limit of output range - End value: 20 mA • | • | Measuring range underflow: 0 mA related to input signal - Measuring range overflow: 20.5 mA Digital output - not active

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