

TECHNICAL DETAILS

See page 45 for an explanation of the symbols used.

Description	Item No.	Image	Circuit Diagram	Input			Output			Special Functions				Configuration				Power Supply			
Isolation Amplifiers																					
Universal isolation amplifier	2857-401			0 ... 1 mA 0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA 0 ... 100 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V 0 ... 220 V	±1 mA ±10 mA ±20 mA ±100 mA ±1 V ±10 V ±30 V ±100 V ±200 V	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±10 mA ±20 mA ±5 V ±10 V	x	x		x	x	x	x	24 VDC				
Isolation amplifier, configurable, with zero/span adjustment	857-400			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V				x			x			24 VDC			
Isolation amplifier, configurable, with digital output	857-401			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±20 mA ±10 V	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		x	x			x		x		24 VDC			
Universal isolation amplifier	857-402			0 ... 0.3 mA to 0 ... 100 mA	0 ... 60 mV to 0 ... 200 V	±0.3 mA to ±100 mA ±60 mV to ±200 V	0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±10 mA ±20 mA ±5 V ±10 V			x	x		x	x		24 VDC			
Bipolar isolation amplifier	857-409			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±10 mA ±20 mA ±5 V ±10 V	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±10 mA ±20 mA ±5 V ±10 V				x		x			24 VDC			
Isolation amplifier, pre-configured	857-411			0(4) ... 20 mA			0(4) ... 20 mA											24 VDC			
	857-412				0(2) ... 10 V				0(2) ... 10 V												
	857-413			0 ... 20 mA						0 ... 20 mA											
	857-414			0 ... 10 V						0 ... 10 V											
	857-415			0 ... 20 mA							0 ... 20 mA										
	857-416			4 ... 20 mA								0 ... 10 V									

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	Item No.	Image	Circuit Diagram																				
	Isolation Amplifiers																						
Repeater Power Supplies	Repeater power supply	857-420		<p> Usensor+ 1 IN 5 OUT+ 2 IN 6 GND 2 GND 1 3 IN 7 Us+ GND 1 4 POWER 8 GND 3 </p>	0 ... 20 mA 4 ... 20 mA			0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V										x				24 VDC	
	HART repeater power supply	857-421		<p> Usensor+ 1 IN 5 OUT+ 2 IN 6 GND 2 GND 1 3 IN 7 Us+ GND 1 4 POWER 8 GND 3 </p>	4 ... 20 mA				4 ... 20 mA														24 VDC
Signal Splitters	Signal splitter, with current output	857-423		<p> IN+ 1 IN 5 OUT 1+ GND 1 2 IN 6 GND 2 OUT 2+ 3 OUT 2 7 Us+ GND 4 4 POWER 8 GND 3 </p>	0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V			2 x 0(4) ... 20 mA									x				24 VDC	
	Signal splitter, with voltage/ current output	857-424		<p> IN+ 1 IN 5 OUT 1+ GND 1 2 IN 6 GND 3 OUT 2+ 3 OUT 2 7 Us+ GND 4 4 POWER 8 GND 1 </p>	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V			2 x 0 ... 20 mA 4 ... 20 mA	2 x 0 ... 10 V 2 ... 10 V								x				24 VDC	
Passive Isolators	Loop-powered isolation amplifier	857-450		<p> U+ 1 OUT 5 Us+ U- 2 IN 6 420mA OUT 1 I+ 3 U, I 7 N.C. I- 4 N.C. 8 N.C. </p>	0 ... 5 mA 0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 1 V 0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±5 mA ±10 mA ±20 mA ±1 V, ±5 V ±10 V ±20 V		4 ... 20 mA				x					x				Power via output circuit	
	Passive isolator, 1-channel	857-451		<p> IN+ 1 IN 5 OUT+ GND 1 2 IN 6 GND 2 N.C. 3 7 N.C. N.C. 4 8 N.C. </p>	0(4) ... 20 mA				0(4) ... 20 mA														Power via input circuit
	Passive isolator, 2-channel	857-452		<p> IN 1+ 1 IN 1 5 OUT 1+ GND 1 2 IN 1 6 GND 2 IN 2+ 3 IN 2 7 OUT 2+ GND 3 4 IN 2 8 GND 4 </p>	2 x 0(4) ... 20 mA				2 x 0(4) ... 20 mA														Power via input circuit

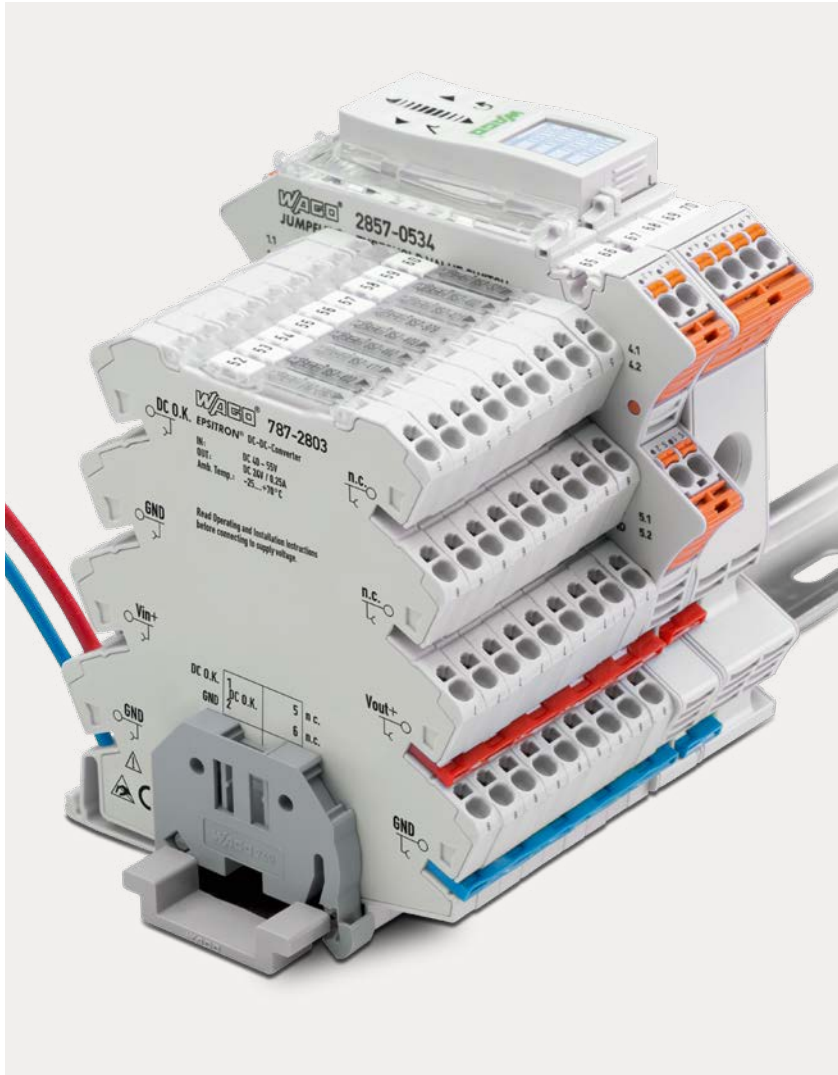
TECHNICAL DETAILS

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	Current and Voltage Signal Conditioners		Input			Output			Special Functions				Configuration					Power Supply		
	Description	Item No.	Image	Circuit Diagram																
Current and Voltage Signal Conditioners	Current and Voltage Signal Conditioners																			
	Through-hole current signal conditioner	2857-550			100 A AC/DC			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V	±10 mA ±20 mA ±5 V ±10 V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC
	Current signal conditioner	857-550			1 A AC/DC 5 A AC/DC			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC
	Current signal conditioner, for Rogowski coils	857-552			Rogowski coils 500 AAC 2000 AAC 4000 AAC			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC
	Voltage signal conditioner	857-560			300 V AC/DC			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC
	Power signal conditioner	857-569			300 V AC/DC (5 A)			0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC
Millivolt signal conditioner	857-819			0 ... 200 mV 0 ... 1000 mV	±100 mV		0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	24 VDC	

EPSITRON® – DC/DC CONVERTERS

Packaged in a 6 mm Wide Housing



The DC/DC Converter in a 6 mm housing is ideal for applications in which only one power supply can be installed in the control cabinet, yet an additional voltage is needed for smaller devices.

This is particularly applicable if 857 Series relays or JUMPFLEX® Signal Conditioners need to be supplied, but only one 48 V power supply is available in the control cabinet.

Advantages:

- Saves control cabinet space
- Can be commoned to the 857 and 2857 Series
- Eliminates the need for an extra power supply
- Ready for global use in many industries thanks to both UL* and GL* approvals

*pending


Item Number	U IN	U OUT	I OUT
787-2801	24 VDC	5 VDC	0.5 A
787-2802	24 VDC	10 VDC	0.5 A
787-2803	48 VDC	24 VDC	0.5 A
787-2805	24 VDC	12 VDC	0.5 A
787-2810 (configurable)	24 VDC	5/10/12 VDC	0.5 A


JUMPFLEX® SIGNS AND SYMBOLS


Signal Conditioners and Isolation Amplifiers


 Isolation amplifier


 Temperature signal conditioner


 Threshold value switch

 Frequency signal conditioner

 Potentiometer signal conditioner

 Resistance signal conditioner

 Current signal conditioner


 Voltage signal conditioner

Isolation Technologies

 Disconnecting

 Amplifying

 Filtering


 Converting


Special Functions

 Zero/span adjustment

 Clipping capability


 Digital output (DO)


 Relay, 1 changeover contact


 Relay, 1 make contact


Configuration

 DIP switch

 Rotary coding switch


 Interface configuration software

 Interface configuration app


 Configuration display for interface modules

 Push/slide switch

 Save

 Simulation

General

 Temperature sensors

 Connection technology

 Supply voltage

Input Signals


 Frequencies

 Potentiometer

 Resistors

 Current


 Voltage


 Bipolar signals
Current and voltage

Output Signals

 Current

 Voltage

 Bipolar signals
Current and voltage

 RS-485 interface