# Amplifier conditioner converter of signals, analog output

#### **APPLICATIONS**

- Acquires very low signals in disturbed areas needing galvanic isolated amplifiers
- Measuring : distortion, pressure, force (gauge sensor)



#### **DESCRIPTION**

E300F4 amplifier conditioner can be used twofold:

- strain gauge sensor conditioner high precision amplifier for low level voltage

Galvanic isolation gives an excellent common mode rejection. Gain, filter, sensor supply are set up manually (buttons at the front). Each amplifier has a 220VAC supply.



### **Technical features**

Low drift	0.2mV/°C
Low noise	S.E.I.I.V
Good stability	5ppm
High common mode rejection	- Trivi
Switchable gain	from 1 to 2000, progression 1-2-5
Accuracy	0.02%
Output filter	from 1 to 7KHz (7 positions)
Bandwidth	
Bridge balance	0-100KHz
Input/output isolation	counter voltage
Anti short-circuiting output	±500V
Format	<del></del>
Input features	Camac rack 19" 4U with supply sock at the rear
Switchable at the front	отпости по
Stability	
Accuracy	
Linearity	0.02% extrapolation by 10-turn potentiometer
Gain	0.01%
Drift temperature	
According to time	
Zero	
Linear	
Max without damage	
Voltage	
Max voltage	
Common mode	±500V (input / output)
Common mode rejection	
Current	Rd=0ohm DC 160dB 50Hz 140dB
Input current	
Resistance	1nA max
Source resistance	
Differential input resistance	
Capacity	
Capacity	
Noise	
Noise	
Bridge supply	
Wiring	
Possibility to supply with current	2 or 4 wires

# Configuration

Voltage	sup	vla
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Extrapolation of ranges by 10-turn potentiometer from 1 to 2000, positions: 1-2-5	
Current supply	
From 0 to 15V DC	
Regulation	By switch (1V not available)
Regulation line	
Regulation charge	0.005% for ±1% DV
Stability	0.02% for 50 to 100% DV
Stability	
Drift	±0.002%/°C
Drift	
Range	From 0 to ±15mV RTI by switch (1mV not available)
Stability	Range extrapolation by 10-turn potentiometer
Stability	
Output features	±0.002%/°C



2 outputs	
Resistance	Filtered output: 2nd order butterworth filter (4th order optional) Non-filtered output
Output resistance	
Voltage	<0.10hm
Voltage	
Current	±10V mini
Current	
Capacity	±5mA
Loading capacity	
Bandwidth	0.1mF max
Bandwidth	
Control command	Non-filtered. From 0 to 100KHz for -3dB
1 logical status	
Mechanic features	Input/control switch
Weight	
Size	1800g (nominal)
Connector	see picture
Rack	Female connector FRB 50 contacts
Dimensions	
Size	
Configuration	19", 4U
Receives 8 x E300F4 units	
Network connection	
Connectors at the rear	220V single-phase, ±10% 50VA
Standard	
Filtered output	input + bridge: 8-male Jeager connectors (533272)
Non-filtered output	1 x miniature male 27-male Jeager connectors
Control relay command / measuring	1 x miniature male 27-male Jeager connectors
Control input	1x 25-male connectors
Power socket	1x 3-male Jeager connectors

## Other configurations on demand

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Use temperature	
Storage temperature	from 0 to +60°C
	from -55 to +85°C

