Isolation amplifier IA-22

- Galvanically isolated input/output and supply.
- 2 kV DC Isolation voltage.
- Response time 25 msek
- Supply 24, 115, 230 VAC, 24 VDC
- Bipolar programmable input/output.
- Standard 11-pole relay socket.

Applications:
Galvanic separation of analogue signals. Measuring on non-ground connected signals. Built-in supply for 2-wire transmitters 4-20 mA. Signal conversion for instance 0-20 mA/4-20 mA.

Technical characteristics:

Input current:	0/4-20 mA bipolar
Input resistance:	30 ohm
Input voltage:	0-10 V bipolar
Input resistance:	Ca 10 Mohm
Output signal current:	0/4-20 mA bipolar
Load:	Max. 600 ohm
Current limit:	Approx. 26 mA
Output signal voltage:	0-10 V bipolar
Load:	Min. 600 ohm
Voltage limit:	Approx. 13 V

Adjustment of zero point and range is available on the front of the trim potentiometers.

Zero point adjustment:	± 5 %
Range adjustment:	± 10 %

Isolation amplifiers are delivered with in- and output signals calibrated according to client preferences.
Rise time 25 msek 0-90% if nothing else is indicated.

Electrical specifications:

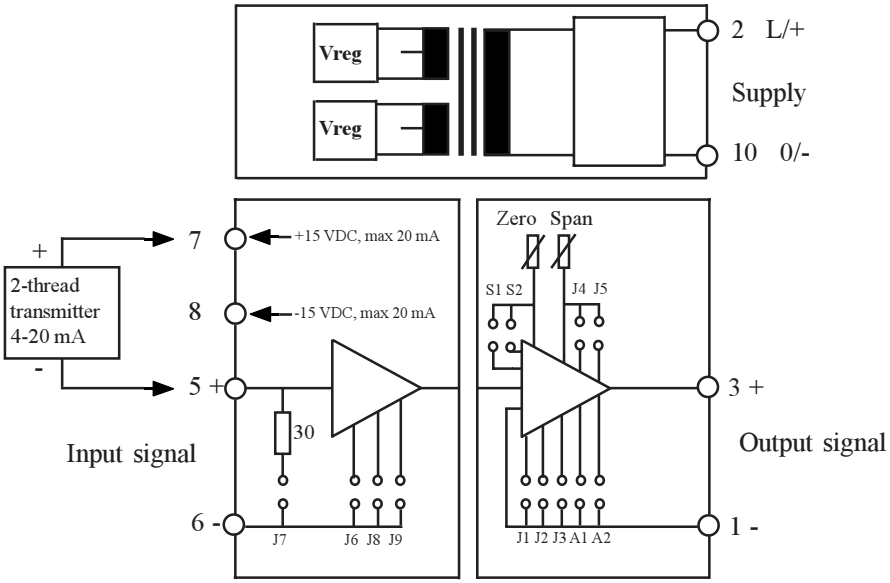
Supply voltage AC:	24, 115, 230 V ± 10 %, 50-60 Hz, Approx. 4 VA
Supply voltage DC:	24 VDC ± 15 %, 70 mA
Non-linearity:	0,1 % FS
Temperature drift:	0,01 % FS/ °C
Max onogrannhet:	0,5 %
Isolation voltage:	2 kV DC
Voltage output:	± 15 VDC ± 5 %, max 20 mA
EMC-data:	EN50 081, emission, EN50 082, immunity
Ambient temperature:	-20 to +50 °C.

ANATRONIC AB
Bangatan 15
S-273 34 Tomelilla
Sweden
www.anatronic.se
Phone +46 417 144 11
Fax +46 417 142 55
info@anatronic.se

Order: IA-22 - Input signal - Output signal - Supply

Input signal:		Output signal:		Supply:	
0-20 mA	-020	0-20 mA	-020	24 VDC	-724
4-20 mA	-420	4-20 mA	-420	24 VAC	-024
0-1 VDC	-001	0-5 VDC	-005	115 VAC	-115
0-5 VDC	-005	1-5 VDC	-105	230 VAC	-230
0-10 VDC	-010	0-10 VDC	-010		
0-60 mV	-060	2-10 VDC	-210		

Block diagram:



Programming jumpers:

Input signal	Jumpers	Output signal	Jumpers
0/4-20 mA	J6, J7	0-20 mA	J2, J4, A2
0-600 mV	J6	0-5 VDC	J1, J3 , J4, A1
0-1 VDC	J9	0-10 VDC	J1, J3, J4
0-5 VDC	J8	4-20 mA	J2, A2, S2
0-10 VDC	-	1-5 VDC	J1, J3, A1, S2
0-60 mV	Spec.	2-10 VDC	J1, J3, S2
		-5-20 mA	J2, J5, A2, S1
		-1,25-5 VDC	J1, J3, J5, A1, S1
		-2,5-10 VDC	J1, J3, J5, S1

Mechanical Specifications: