

Analog signal conditioner with high voltage/current output
Analog signal amplifier **CAL 101L / CAL 140**

LOREME

• **Application :**

valve control, positioner, actuators...
 Voltage or current amplifier,
 High magnitude signal conditioner

• **Output power up to 150VA**

• **Current or voltage output**

unipolar up to 80V / 5A
 or bipolar up to +/- 30V / 5A

• **Fully protected**

short-circuit
 overloads
 thermal

• **3-way galvanic insulation**

input / output / power supply

• **up to 20Khz of bandwidth on request**

Response time mini < 0.1ms



This signal conditioners amplifiers are designed to control of actuators or motorized gate valves. They ensure the amplification, the scaling and isolation of control signal.

*Device must be defined at order with : power supply, input signal, output signal, load, bandwidth.
 This amplifier are manufactured and dedicated to each application.*

CAL101L 10 Watts maxi

- Output power: 10 Watts max
- Input V, mA, (unipolar or bipolar)
 0..4...20mA, 10..50mA, 0/10v, +/-10V,.....
- Output : voltage or current (unipolar or bipolar)
 10..50mA, +/- 50 mA, 0 ... 200 mA, +/-10V, +/-30V , 0...60V
- Response time : <10 ms typical
- Bandwidth : up to 20Khz
- 3 ways isolation : 1500Vac
- Power supply : 230 Vac , 24 Vdc
 Other on request : 125Vdc ,48Vdc,
- Din rail mounting



CAL140 150 Watts maxi

- Output power : 150 Watts max
- Input V, mA, (unipolar or bipolar)
 0..4...20mA , 0/10v, +/-10V,.....
- Output : voltage or current (unipolar or bipolar)
 0..200mA, +/- 500 mA, +/-30V , 0...1 A, +/-10V, 0..24V,...
- Response time : <10 ms typical
- Bandwidth : up to 20Khz
- 3 ways isolation : 1500Vac
- Power supply : 230 Vac , 24 Vdc
 Other on request : 125Vdc ,48Vdc,
- Din rail mounting
- optional Ventilated box for extended temperature range.



INPUT on request

All process signals: 0/10V, 4/20mA,

Minimum impedance of the voltage input: >100 Kohms

Maximum impedance of the current input: <250 Ohms

2 wires transmitter supply possible

OUTPUT on request

Maximum output voltage : 60 Vdc, +/- 30V

Maximum output current : 10 Adc, +/- 5A

Accuracy range : +/- 0.4 %

bandwidth up to 20KHz

POWER SUPPLY

All type on request AC, DC

(24Vdc, 48Vdc, 230Vac, 125Vdc, ...)

Maximum consumption 100 VA (CAL140)

Maximum consumption 25 VA (CAL101L)

ENVIRONMENT

Operating temperature -10 °C to 45 °C

Storage temperature -20 °C to 85 °C

Humidity 85 % (not condensed)

Dielectric strength 1500 Vrms continuous

Weight 2000 g (CAL140)

300 g (CAL101L)

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE**Immunity standard for industrial environments****EN 61000-6-2****Emission standard for industrial environments****EN 61000-6-4**

EN 61000-4-2 ESD

EN 61000-4-8 AC MF

EN 55011

EN 61000-4-3 RF

EN 61000-4-9 pulse MF

group 1

EN 61000-4-4 EFT

EN 61000-4-11 AC dips

class A

EN 61000-4-5 CWG

EN 61000-4-12 ring wave

EN 61000-4-6 RF

EN 61000-4-29 DC dips

**WIRING AND OUTLINE DIMENSIONS:**