

• **CAL35CAD**

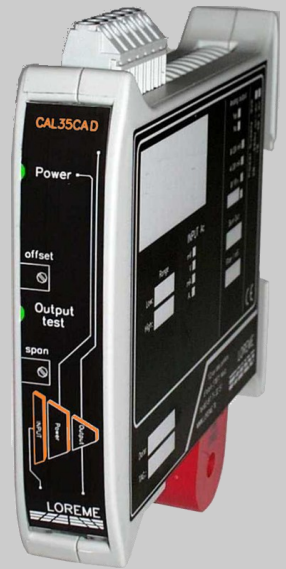
Converter for sinusoidal AC signal.

• **CAL35CAD-RMS**

PWM, phase angle variation,

wave train,

and signal with high harmonics level



The transducer CAL35CAD transforms AC voltages or currents into a standard analog output (0 ... 4 ... 20 mA or 0 ... 10 V) proportional to value of input .

DESCRIPTION:

Measures:

- Alternative voltage from 50mV to 1000V
(45 to 500 Hz frequency range)
- Alternative current from 100mA to 10A on terminal blocks

Option:

- Up to 60 seconds integration time for low wave train applications.
- Output of Instantaneous value for measure and waveform monitoring application.

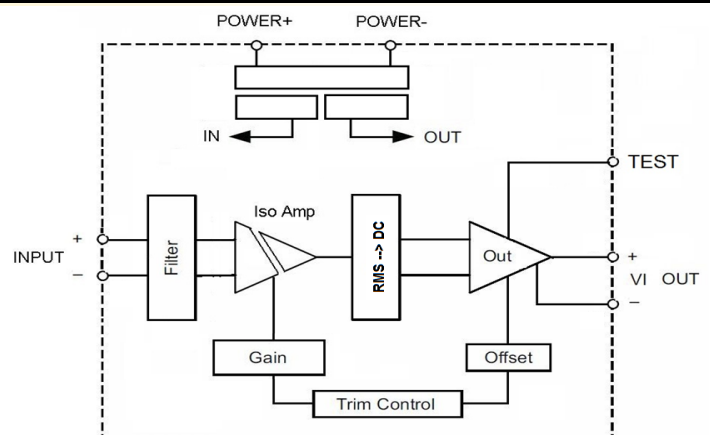
Analog output:

- Current 0...4...20 mA, active or passive mode
- Voltage 0...10 V

Feature:

- DIN rail mounting (IP20 box),
- connection on pluggable screw terminal blocks (2,5 mm² max),
- wide range universal power supply,
- customized measure scale at the end of manufacturing,
- low and high scale readjustment is possible with multi-turn potentiometers (under de cover),
- output current control Led,
- test terminal block for measuring the output current without opening the loop,
- active or passive current output,
- conformal coating.

Synoptic:



Version and order code:

CAL35CAD : - Sinusoidal signal measurement

CAL35CAD-RMS: - True RMS measurement (AC)
for distorted signals,
suppression of DC component

INPUT

Voltage (ac) 100mV to 1000 V
Impedance > 1 Mohms @ 1000V
Continuous overload 2 x UN @ 1000V
Absorbed power < 0.25 W

Direct Current (ac) 10mA to 10 A
Impedance < 0.25 Ohms @ 1A; < 0.05 Ohms @5A
Peak overload 6 x IN during 3 s @5A

Using frequency range 50Hz / 60Hz - 400 Hz on request

Current (Rogowski coil) sensitivity 100mV/kA @ 50hz

OUTPUT

Current 0... (4) ... 20 mA
Max. load 1500 Ohms

Voltage 0 - 10 V
Impedance 500 Ohms

Accuracy +/- 0.5 %

Response time < 300ms typical
Ripple (noise) < 30mV

POWER SUPPLY

20.....265 Vac-dc or 9 to 30 Vdc, 2 W
Protection against reverse polarity

ENVIRONMENT

Operating temperature -10 to 60 °C
Storage temperature -20 to +85 °C
Thermal drift (% of the full scale) 0.05 % / °C
Humidity 85 % not condensed

Weight 200 g

Resistance to vibrations >2 g at 100 Hz

Protection rating IP20

Recommended mounting direction Vertical

Dielectric strength 5000 Vac
(Inputs / Outputs , Power)
2500 Vac
(Outputs / Power)

MTBF (MIL HDBK 217F) > 4 000 000 Hrs @ 25°C
Life time > 170 000 Hrs @ 30°C

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 61000-4-3 RF	EN 61000-4-9 pulse MF
EN 61000-4-4 EFT	EN 61000-4-11 AC dips
EN 61000-4-5 CWG	EN 61000-4-12 ring wave
EN 61000-4-6 RF	EN 61000-4-29 DC dips

EN 55011
group 1
class A



WIRING AND OUTLINE DIMENSIONS:

