

CAL35CA

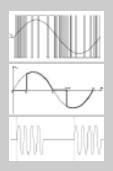
Measure converter for sinusoidal alternative signals (voltage or current)

- CAL35CA/A: self-powered version (by measured signal)
- CAL35 RMS (TRUE EFFECTIVE VERSION)

MLI. PWM Phase angle variation Wave train



- Fully galvanic insulation
- Accuracy: +/- 0,5 %





The CAL35CA measurement converter allows to transform alternative voltages or currents into a current (0 ... 4 ... 20 mA) or a voltage (0.....10 V) proportional to the input value.

FUNCTIONALITY:

Measures:

- Alternative voltages from 250 mV to 1000V.
- Alternative currents from 100uA to 5A on screw terminals
- Alternative currents from 5A to 150A on small opening CT type: Tio (frequency range, 45 to 500 Hz).

Outputs:

- Current 0...4...20 mA.
- Voltage 0...10 V. (Other outputs on request).

General characteristics:

- DIN rail mounting (IP20 box).

by multi-turn potentiometer.

- Connecting on screw terminals 2,5 mm².
- Triple galvanic insulation (input/output/power supply).
- Standard linear or broad range switching power supply.
- Personalized measure scale at the end of fabrication.
- Start and end scale readjustment is possible
- Protection against overvoltage's or over currents.







Version and order code

CAL35CA: - Standard version, with linear auxiliary power supply

connector not demountable

- to measure sinusoidal alternative signals

CAL35CA-A: - Self-powered by measure signal version - output type 0...10...20 mA, maximum load of 550

Ohms or 0 ..10 V,....

CAL35 RMS: - True effective measure version (AC+DC)

for all not sinusoidal or needing a broad band-pass

applications (0.25Hz to 100Khz)

CAL35 TRMS: - True effective measure (AC+DC) version

for all not sinusoidal or needing a broad band-pass

applications (0Hz to 500Khz)

INPUT

TYPE VALUE
Voltage (ac) 500 V
Impedance > 1 MOhms
Continuous overload 2 VN
Absorbed power 0.25 W

Current (ac) 5 A
Impedance 0.05 Ohms
Continuous overload 1.5 IN
Peak overload 6 IN during 3 s
Absorbed power 1.25 W

Current (ac) 1 A
Impedance 0.25 Ohms
Continuous overload 3 IN
Peak overload 6 IN during 5 s

Absorbed power 0.25 W

Current (ac) 50 A on crossing CT

Continuous overload 6 IN
Peak overload 6 IN during 5 s
Absorbed power 0.25 W
(CAL35CA-D only)

Using frequency range 15 - 500 Hz (CAL35CA)

0.25hz to 100khz (CAL35RMS) Dc to 100khz (CAL35TRMS)

OUTPUT

 TYPE
 VALUE

 Current
 0... (4) ... 20 mA

 Max. load
 800 Ohms

 Voltage
 0 - 10 V

 Impedance
 500 Ohms

 Accuracy
 +/- 0.5 %

Response time <300 ms(CAL35ca)

from 5 mS to 60 S (cal35rms and Trms)

according application

Residual ripple (noise) < 30 mV

POWER SUPPLY

(to be specified at the order)

230 Vac 50-60 Hz +/- 10 %, 2.3 VA 115 Vac 50-60 Hz +/- 10 %, 2.3 VA 20 to 70 Vac / Vdc, 2.3 VA 80 to 265 Vac / Vdc, 2.3 VA 20.....265 Vac-dc (CAL35CA-D) 9 to 30 Vdc, 2 W Protection against reverse polarity

RECOMMENDED OPERATING CONDITIONS

Temperature

 Operating
 -10 to 60 °C

 Storage
 -20 to +85 °C

 Influence (% of the full scale)
 0.05 % / °C

Relative humidity 85 % not condensed

Weight 200 g

Vibrations holding 2 g p.t.p. at 100 Hz

Tightness IP20
Recommended mounting direction Vertical

Dielectric strength 1500 Vac continuous 5000 Vac (CAL35CA-D)

(Inputs/Outputs)

Electromagnetic compatibility

Generic standards: NFEN50081-2 / NFEN50082-2

EN55011 group 1 / class A meet EN61000-4-2 no influence В ENV50140 < +/- 5 % Α EN61000-4-4 < +/- 5 % В ENV50141 < +/- 10 % Α EN61000-4-5 < +/- 5 % В ENV50204 no influence Α

EN61000-4-8 no influence A

EN61000-4-11 < +/- 5 % B DBT **73/23/CEE**

WIRING AND OUTLINE DIMENSIONS:

