

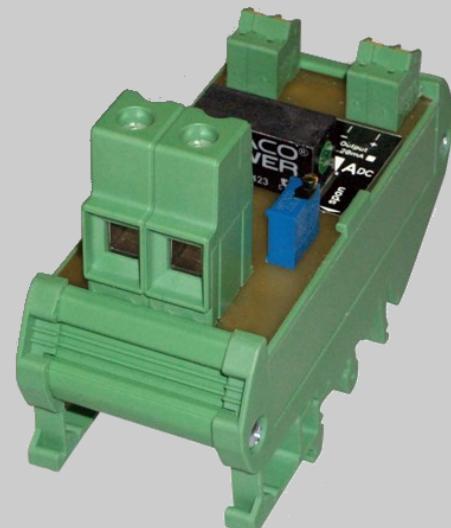
- **DC Current input:**
from 1A to 100 Adc (or +/- 1A to +/- 100A)
Up to 50kHz bandwidth.

- **Hall effect Technology :**
Screw terminal blocks (5A.....100A maxi).

- **Current or Voltage Output**
Unipolar or bipolar: 0 .. 4 .. 20mA, +/-20mA, +/-10V, ...
isolated from power supply.

- **Direct shunt replacement**
isolated mV output (no heat dissipation);

- **Power supply:** 4.5...18Vdc, 18...36Vdc, 9...36Vdc, 18...75Vdc, ...



The CAL35CC transducer allows direct current measurement up to 100 A, replacing favorably shunts, reducing insertion losses and providing a formatted output signal (4..20mA, 0...10 V or mV).

Application: solar farm, wind power, batteries

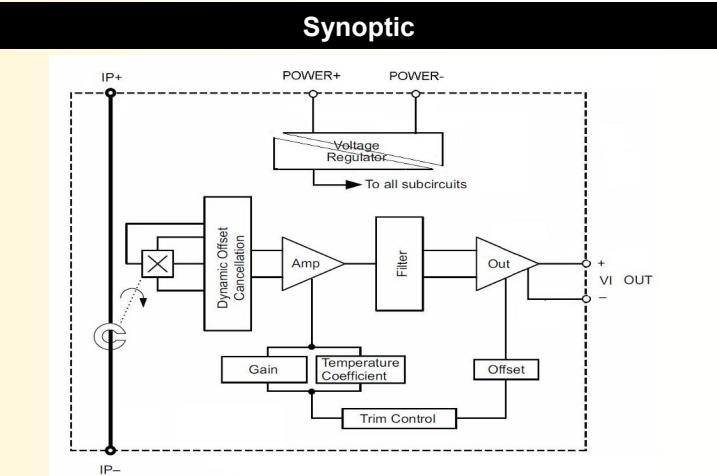
- Defective solar panels detection
- Panels output power measurement
- Panels orientation regulation
- Battery Monitoring, motors DC current monitoring
- Welding

Description:

- **Inputs:**
Direct Current: unipolar or bipolar (all input range on demand)
Minimum range: 5 Adc (+/- 5 Adc)
Maximum range: 100 Adc (+/- 100 Adc)
- **Output signal:**
Unipolar or bipolar (mirror of the instantaneous input value except for the TRMS version: output of effective value)
- Output voltage, all range up to 10V max (+/-10V)
(possibility of mV output for direct shunt substitution with isolation)
- Current output: 0 ... 4 20mA (+/- 20mA)

Feature:

- Plastic profile for symmetrical DIN rail mounting.
Protection rating IP20
- Connection:
 - * Power supply and output on spring terminal
(1 mm² Max for wire section)
 - * Current circuit measurement:
25 mm² maxi for screw terminals
- Green LED for indication of supply voltage.
- Trimmer for offset and span re-adjustment.
- Power supply protected against reverse polarity.
- Conformal coating.



Version and order code:

Request a quote

CAL35CC current input on terminal block 25mm² (100A max)

CAL35CC-TRMS TRMS measurement version

Standard power supply	: 18Vdc 36Vdc (default supply range)
Low voltage	: 4.5Vdc.....18Vdc Ref. option: -LVi
extended standard	: 9Vdc.....36Vdc Ref. option: -Wi
High voltage	: 18Vdc.....75Vdc Ref. option: -HVi
other supply voltage on request (230Vac,...)	

INPUT

Current	+/- 5Adc....+/- 100Adc
Input impedance	~ 200 uOhms
Accuracy	+/- 0.7 % of full scale
Standard response time	< 50 ms
In option, bandwidth up to 5KHz (-3 dB, 50Khz for mV)	
Typical response time at 90%	0.4 / cutoff frequency
Admissible overcurrent (maxi.)	6 x I _N for 5 seconds

OUTPUT

TYPE	SCALE
Current Load	0 ... 4 ... 20 mA or +/- 20mA, ... 0500 Ohms
Voltage (volts) output impedance	0 ..1...5....10 V or +/- 10V, ... 500 Ohms for 10V
Voltage (mV) output impedance	0...50...100...500 mV 1 Kohms (Other output range on request)

POWER SUPPLY

standard: 18 to 36 Vdc Consumption: <1.5 VA
(All possible nominal voltage from 5Vdc to 300 Vdc or Vac)
reverse polarity protected.

ENVIRONMENT

Operating temperature:	- 25 °C+ 65 °C
Storage temperature:	- 40 °C+85 °C
drift:	~ 0.015% / °C
Humidity	85% non condensed
Weight	~ 150 gr.
Protection rating	IP20

Dielectric Strength: (Input / Power supply / Output)	2000 Vrms continuous (3500 Vrms / 1 min)
(Power supply / Output)	500 Vrms continuous (24Vdc) (3500 Vrms / 1 min) (230Vac)
MTBF (MIL HDBK 217F)	> 1 200 000 Hrs @ 25°C
MTBF (MIL HDBK 217F)	> 1 000 000 Hrs @ 40°C
Life time	> 200 000 Hrs @ 30°C

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

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

**Emission standard for industrial environments
EN 61000-6-4**

EN 55011
group 1
class A

**WIRING AND OUTLINE DIMENSIONS:**