



Main features

- The LP-IPCT is a DC Current Transformer
- Inner aperture 30mm (1.18")
- Full scale from ± 1 mA to ± 2 A factory preset
- Accuracy independent of primary conductor position
- Withstands 100kA 4/10 μ s discharges
- 100 times more precise than Hall effect sensors
- Increased sensitivity with multiple primary turns

Operating principle

The LP-IPCT is based on the DCCT principle invented at CERN, the European Particle Physics Laboratory.

Non-intercepting DC current measurement with less than 3 microamps resolution

To measure:

- Battery leakage current
- Standby systems charging currents
- Return ground currents, DC and AC
- Sum of currents
- Small difference of high currents
- Low current at high voltage
- Power tube electrode currents
- Electrostatic corona discharge
- Electrochemically induced currents

Two ± 10 V analog outputs available:

- Full bandwidth output
DC to 1 kHz (-3dB) response
- Limited bandwidth output with reduced output noise
DC to 200 Hz (-3dB) response

DISTRIBUTORS

U.S.A.: GMW Associates
www.gmw.com
sales@gmw.com

Japan: REPIC Corp.
www.repic.co.jp
sales@repic.co.jp

India: GEEBEE International
www.geebbeinternational.com
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China: Beijing Conveyi Limited
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sales@conveyi.com

MANUFACTURER

BERGOZ Instrumentation
www.bergoz.com
Espace Allondon Ouest
01630 Saint Genis Pouilly, France
sales@bergoz.com

Specifications

Full scale range	Any value from $\pm 1\text{mA}$ to $\pm 2\text{A}$, factory preset
Over range	120% full scale permanently
Saturation	>120% full scale
Damage level	DC: unlimited
Voltage isolation	Discharge: > 100kA 4/10 μs (option) 5kV current conductor to ground
Resolution	User may add additional insulation
Linearity error	See "Resolution" table below
Absolute accuracy	<0.1% FS
Ripple	$\pm 0.2\%$ FS
Outputs	7kHz and even harmonics See "Ripple" table below
Zero adjust	Full bandwidth / Limited bandwidth
Power supply	DC to 1kHz / DC to 200Hz
Connection	See "Bandwidth" table below
Temperature drift	$\pm 10\text{V}$, buffered, 20 mA max
Stabilization after overload	stands permanent short circuit
Magnetic field	20-turn front-panel potentiometer
Mass	+15V, 100mA
	DB-9 male on front panel
	<5 $\mu\text{A}/\text{K}$
	20ms max.
	50 $\mu\text{A}/\text{Gauss}$ typ. sensitivity
	0.2 Kg

Resolution, bandwidth and ripple

Range	Resolution (1s integr.)	Full bandwidth output		Limited bandwidth output	
		Bandwidth (-3 dB)	Ripple (7kHz)	Bandwidth (-3 dB)	Ripple (7kHz)
$\pm 1\text{ mA}$	1 μA	> 50 Hz	< 80 mV rms	> 50 Hz	< 80 mV rms
$\pm 10\text{ mA}$	2 μA	> 500 Hz	< 50 mV rms	> 200 Hz	< 25 mV rms
$\pm 100\text{ mA}$	3 μA	> 1 kHz	< 20 mV rms	> 200 Hz	< 5 mV rms
$\pm 2\text{ A}$	3 μA	> 1 kHz	< 20 mV rms	> 200 Hz	< 5 mV rms

Order codes

LP-IPCT-XXXmA Integrated Parametric Current Transformer. Factory-preset Any range XXXmA up to $\pm 20\text{ A}$

Options

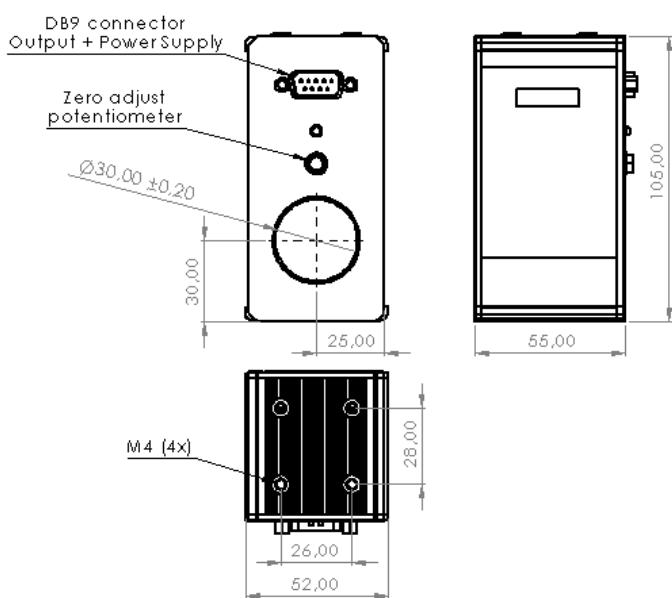
LP-IPCT-0.01% Linearity error < 0.01% Full Scale
LP-IPCT-CALCERT IPCT initial certificate of Calibration with test report
LP-IPCT-PS-BNC 90-245Vac power supply & BNC output for IPCT

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Dimensions



IPCT-PS-BNC (on option): Power supply & BNC output for IPCT



Connections

Function	Pin
Power supply -15V	4
Power supply +15V	9
Power supply ground	5
Full bandwidth output	2
Output ground	7
Limited bandwidth output	8

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