LX529

The Leyro Portable Process Calibrator LX529 is a handheld, battery-operated instrument that measures and sources a variety of electrical parameters. It can be widely applied in industrial fields and laboratories. The upper display allows you to measure volts, current and thermocouples. The lower display allows you to measure and source volts, resistance temperature detectors (RTD), thermocouples (TC), resistance and frequency.

APPLICATIONS
On site calibration
Maintenance and service
All kind of industry
Machinery Constructions

HIGHLIGHTS
Compact and light
Easy to use
Accuracy ±0.01%
Zero Clearing
Auto flash terminals

Power adapter and micro USB cable

Test leads

External temperature detector

Portable pack

General Information

Compact, light and easy to use

A split-screen display and calibration functions

Accuracy ±0.01%

Warranty: 1 year agains factory defects

CE

Environmental performance	
Operating Temperature Range(ºC)	-10°C to 55°C
*All specifications apply from 18 to 28ºC and assume a 5 min warm-up period	
Safety standards and certifications	IP54
EMC standards	EN55022, EN 55024
Vibration	Random, 2g, (5...500)Hz
Shock	Half-sine wave, 30g, 11ms
Physical	
Dimensions	223,5 x 111 x 45,5mm
Weight	670g approx.
Power requirement	5V, 2A
Power adapter requirement	(100…240)VAC

DC Voltage		**Accuracy**
Type	**Range**	**(%reading+%range)**
Measure	0…100mVDC (M)	+/- (0,01+0,01)
	0...30VDC (M)	+/- (0,01+0,01)
	0…100mVDC (S/M)	+/- (0,01+0,01)
	0...20VDC (S/M)	+/- (0,01+0,01)
Source	0…100mVDC	+/- (0,01+0,01)
max. load: 3mA	0…10VDC	+/- (0,01+0,01)

mA		**Accuracy**
Type	**Range**	**(%reading+%range)**
Measure	0…24mADC	+/- (0,01+0,01)
Source	0…24mADC	+/- (0,01+0,01)
	*Load capacity: 750Ω/20mA	

Frecuency			
Type	**Range**	**Resolution**	**Accuracy (%)**
Measure	(1…1100)Hz	0,1Hz	+/- 0,05
	(1…10)kHz	0,01kHz	+/- 0,05
	Sensitivity not less than 1V (peack to peack)		
	Wave form : Square wave		
Source	(1…1100)Hz	1Hz	+/- 0,05
	(1…5)kHz	0,1kHz	+/- 0,05
	Wave form : (0...22)V +-0.5V peack to peack		
	Load drive capability 3mA		

*M (Measure)

*S (Source)

Resistance		**Accuracy**
Type	**Range**	**(%reading+%range) .**
Measure	(0…400)Ω	+/- (0,00…0,01)
	(0,4…1,5)kΩ	+/- (0,01…0,01)
	(1,5…3,2)kΩ	+/- (0,01…0,01)
	Excitation current: 0,5 mA	
	Resolution:	(0…2000)Ω : 0,01Ω
		(2,0…3,2)kΩ : 0,1Ω

Type	**Range**	**Excitation current**	**Accuracy (%reading+%range)**
Source	(15…400)Ω	(0,5…3)mA	+/- (0,00…0,01)
(2 wire)	(0,4…1,5)kΩ	(0,05…0,8)mA	+/- (0,01…0,01)
	(1,5…3,20)Ω	(0,05…0,4)mA	+/- (0,01…0,01)

Before sourcing or measuring, offset errors caused by internal elements or external factors must be cleared

RTD

Type	Range	Accuracy (ºC)	M/S
Cu50	-50…150	+-0,2	
PT100 (385)	-200…800	+-0,1	
PT100 (3916)	-200…510	+-0,1	
PT200 (385)	-200…250	+-0,1	
	-250…630	+-0,2	
PT500 (385)	-200…500	+-0,1	
	500…630	+-0,2	
PT1000 (385)	-200…100	+-0,1	
	100…630	+-0,2	

Resolution: 0,1ºC

Excitation current (source):

Cu50, PT100(385), PT100 (3916), PT200 (38	(0,15…3,0)mA
PT500 (385)	(0,05…0,50)mA
PT1000 (385)	(0,05…0,40)mA

3 wire, assumes matched leads with a total resistance not exceeding 100Ω

Before sourcing or measuring, offset errors caused by internal elements or external factors must be cleared

Thermocouple

Type	Range	Accuracy (ºC)
J	-200…0	+-0,3
	0…1200	+-0,2
K	-200…0	+-0,4
	0…1370	+-0,3
T	-200…0	+-0,7
	0…400	+-0,3
E	-100…0	+-0,4
	0…950	+-0,3
R	-20…0	+-0,9
	0…500	+-0,7
	500…1750	+-0,6
S	-20…0	+-0,9
	0…500	+-0,7
	500…1750	+-0,6
B	600…800	+-0,7
	800…1000	+-0,6
	1000…1800	+-0,5
N	-200…0	+-0,6
	0…1300	+-0,3

Resolution: 0,1ºC

Cold junction error: +-0.5ºC

Typical error of the temperature detector :+-0.2ºC

Standard delivery:

Process calibrator, MC leads, U-clamp, short jumpers

Power adapter and micro usb cable

Portable pack

User Manual and Conformity Certificate