

FEATURES

- ❑ **Source and measure mA - Volt**
Two current ranges 20mA, 50mA.
Four Voltage ranges 20mV to 20V.
- ❑ **Sink 20mA Function**
Simulate a loop power two wires transmitter.
- ❑ **Loop Power 20mA measure.**
Power the loop and measure loop current.
- ❑ **Step Function.**
Five factory predefined functions.
Five user defined time based in 25 steps functions.
- ❑ **Fast Charger built in.**
A fast charger for easy use.
- ❑ **RS232 Interface.**
Via RS232(Optical option cable)

USER INTERFACE



- ❑ **Two Only Input / Output Terminals**
- ❑ **RS232 Interface Input**
- ❑ **Built in Fast Charger**
- ❑ **4 Large Digits LCD display**
- ❑ **Pure Green Adjustable Back light**
- ❑ **Large Button**
- ❑ **UP / Down Keys**
To set each digit individually
- ❑ **Enter Key**
For program and calibration use
- ❑ **Next Key**
To select next range or parameter
- ❑ **V/mA Key**
To select Volt or mA function
- ❑ **M/S Key**
To select Measure or source/sink mode
- ❑ **Run/Stop Key**
To Run and connect the IZYCAL-100
- ❑ **S Key**
To select Step function / To Save parameters
- ❑ **Exit Key**
For Step program use
- ❑ **On/Off Key**
To Power On/Off (Also Auto shutdown)

TECHNICAL DATA

Measurement

Range	Indication	Accuracy	Resolution	Input impedance	Response Time
20.00Vdc	0.00V to 21.00Vdc	0.03% of Span +/- 1 digit	10mV	1 Mohms	< 50ms for 95%FS
2.000Vdc	0.000V to 2.100Vdc	0.03% of Span +/- 1 digit	1mV	1 Mohms	< 50ms for 95%FS
200.0mVdc	0.0mV to 210.0mVdc	0.03% of Span +/- 1 digit	100uV	1 Mohms	< 50ms for 95%FS
20.00mVdc	0.00mV to 21.00mVdc	0.03% of Span +/- 1 digit	10uV	1 Mohms	< 50ms for 95%FS
20.00mA	0.00mA to 21.00mAdc	0.03% of Span +/- 1 digit	10uA	50 Ohms	< 50ms for 95%FS
50.00mA	0.00mA to 50.00mAdc	0.03% of Span +/- 1 digit	10uA	20 Ohms	< 50ms for 95%FS
Loop power	0.00mA to 21.00mAdc	0.03% of Span +/- 1 digit	10uA	20 Ohms	< 50ms for 95%FS

Sourcing

Range	Indication	Accuracy	Resolution	Remarks	Response Time
20.00Vdc	0.00V to 21.00Vdc	0.03% of Span +/- 1 digit	10mV	Load max 2 mA	< 50ms for 95%FS
2.000Vdc	0.000V to 2.100Vdc	0.03% of Span +/- 1 digit	1mV	Load max 10mA	< 50ms for 95%FS
200.0mVdc	0.0mV to 210.0mVdc	0.03% of Span +/- 1 digit	100uV	Load max 10mA	< 50ms for 95%FS
20.00mVdc	0.00mV to 21.00mVdc	0.03% of Span +/- 1 digit	10uV	Load max 10mA	< 50ms for 95%FS
20.00mA	0.00mA to 21.00mAdc	0.03% of Span +/- 1 digit	10uA	Voltage max 20V	< 50ms for 95%FS
50.00mA	0.00mA to 50.00mAdc	0.03% of Span +/- 1 digit	10uA	Voltage max 10V	< 50ms for 95%FS
Current sink	0.00mA to 21.00mAdc	0.03% of Span +/- 1 digit	10uA	Voltage max 20V	< 50ms for 95%FS

Functions

Factory Defined	Definition	User Defined	Definition
FSn 01	4.00mA to 20.00mA Step 2.00mA	USn 01	Five functions fully user lzy-programmable. for sourcing range and the Steps time. Step 100ms to 999.9s
FSn 02	0.00mA to 20.00mA Step 2.00mA	USn 02	
FSn 03	0.00V to 11.00V Step 1.00V	USn 03	
FSn 04	0.000V to 1.100V Step 100mV	USn 04	
FSn 05	0.000V to 2.100V Step 200mV	USn 05	

Parameters of influence

Input Voltage	30V absolute Maximum	Protected by fuse
Operating temperature	-10C to 55oC	Temperature coefficient < +/- 0.01% of Span per oC
Relative Humidity	20 to 80% RH	Not condensing
Battery	Measure 20 Hours, Sourcing 10 Hours Min	Battery voltage influence < +/- 0.005% of Span

General

Battery	Rechargeable 4 x AA NiMH 1.7A	Size	92 x 146 x 43mm (without carry case)
Charger	Internal fast charger, less than 3 hours	Weight	350g (without carry case)
On / OFF	Auto shut-down selectable	Storage Temperature	-40 to 70oC (-20 to 50oC with Batteries)

Accessories

Battery	Rechargeable 4 x AA NiMH 1.7A	# Izycal-100-01	All accessories supplied with Izycal-100
Leads	1m test leads red /black with Alligator clips	# Izycal-100-02	
Carry case	Fine leather finish	# Izycal-100-03	
Power Pack	Universal power adaptor 90-262Vac / 10Vdc 1A	# Izycal-100-04	

Other

Custom Calibration	Factory function programming on request Calibration certificate to NATA on request	Contact us	sales@edrelectronics.com.au
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