



## 7005 Loop Calibrator

- Hand Held
- Rugged
- Easy To Use

A current/volt calibrator that packs enough power to work all day with high accuracy and high resolution.

Designed by instrument engineers to suit the needs of technicians in laboratories, workshops and in the plant.



### Features

- Accuracy 0.05% or reading
- Resolution 0.001 mA
- 24 Volt Supply
- √ User Functions for Flow
- 2/3 Wire Operation
- Manual Adjustment
- Set Points
- Programmable Ramp
- Battery Management
- 4 Wire connections for READ and SIMULATE
- Drives 20mA through 1100Ω Loop

## Technical Data

### Measurement

**DC CURRENT** 0..125mA. Auto ranging  
0..25mA  
Accuracy  $\pm(0.002\text{mA} \pm 0.01\% \text{ rdg})$   
Resolution 0.001 mA  
25..125mA  
Accuracy  $\pm (0.02\text{mA} \pm 0.01\% \text{ rdg})$   
Resolution 0.01mA

**DC VOLTS** 0..25V Auto ranging  
0..5V  
Accuracy  $\pm (0.0004\text{V} \pm 0.01\% \text{ of rdg})$   
Resolution 0.0001V  
5V..25V  
Accuracy  $\pm (0.002\text{V} \pm 0.01\% \text{ of rdg})$   
Resolution 0.001V

### Source

**DC CURRENT** 0..50mA  
Accuracy  $\pm (0.002\text{mA} \pm 0.01\% \text{ rdg})$   
Resolution 0.001mA  
Loop Resistance max.  $1100\Omega @ 20\text{mA}$

**DC VOLTS** 0-21V @ 20mA  
Accuracy  $\pm (0.004\text{V} \pm 0.01\% \text{ rdg})$   
Resolution 0.001V

**SUPPLY VOLTS**  
24V @ 50mA Fixed

## SUMMARY OF FUNCTIONS

**MEASUREMENT MODE** mA, V, %, % Flow

- Preselected ranges for measurement in %:

<b>4 - 20mA</b>	<b>0 - 20mA</b>
<b>sq.rt. 4 - 20mA</b>	<b>sq.rt. 0 - 20mA</b>

**OUTPUT MODE** 0..50mA and 0-21v adjustable and programmable

- Step Output Functions: 0%, 25%, 50%, 75%, 100% of programmed values

- Preselectable ranges for stepped output:

<b>4 - 20mA</b>	<b>0 - 20mA</b>
<b>sq.rt. 4 - 20mA</b>	<b>sq.rt. 0 - 20mA</b>

- Continuously adjustable output steps of  $1\mu\text{A}$  and 1mV with speed control.

- Ramp Function: Auto cycle: Dwell-Up-Dwell-Down

- Programmable Ramp Functions Stepped and smooth selectable

Ramp Rate	V/mA per second 0 – 50
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Dwell Period	Seconds 0 – 1000
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Ramp Limits	Programmed 0% & 100%
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## GENERAL

- Battery life >9 hours @ 12mA output

- Rechargeable battery pack

- Size 157 x 90 x 33mm

- Auto shut-down selectable

- Case: Impact resistant ABS

- Weight: 0.55kg