



# 7006/7007 Loop-Mates 1 and 2

Time Electronics

Calibration, Test & Measurement

- Pocket sized 140 x 66 x 27 mm
- 4 - 20mA or 0 - 10V loops
- 7 calibration set-points
- TxSim and RxTest (Loop-Mate1)
- RxSim and TxTest (Loop-Mate2)
- Auto-Step output - adjustable rate
- Battery powered PP3
- Internal loop drive supply



The Loop-Mates are single function low-cost pocket sized units, designed for test and calibration of process loops. Simplicity of operation is their key - no keypads or complicated selections. Engineers will be able to pick them up and get to work immediately. Just select 4 - 20mA, or 10V loop, and TxSim, RxTest, RxSim or TxTest. Both have internal loop drive supplies, which can be used to power the loop if required.

**Loop-Mate1** is the simulator and acts as a source to provide the loop signals, 4 - 20mA or 0 - 10V. No complicated selection of the output, just operate up/down buttons to increase or decrease the signal. There are 7 set-points, 0%, 10%, 25%, 50%, 75%, 90%, 100%. Each is indicated on a high brightness LED and an audible beep sounds as you step between them. Auto-stepping mode (adjustable rate) allows Loop-Mate1 to be left connected stepping up and down. The engineer can then move to another location to check (using Loop-Mate2) that the signal is arriving correctly and is within specification.

**Loop-Mate2** is a dedicated loop signal indicator, just as easy to operate. Once again select the loop type, 4 - 20mA, or 0 - 10V, and whether you want the display in direct units, or % of span. The LCD display shows the signal to an accuracy of 0.05% either in mA, V, or % of span.

Both units are powered by a single standard PP3 battery that gives up to 40hrs continuous use.

## 7006 & 7007 Technical Specifications

7006 Loop-Mate1		7007 Loop-Mate2	
<b>Range:</b>	4 - 20mA, or 0 - 10V	<b>Range:</b>	4 - 20mA, 0 - 10V, 0 - 50V
<b>Set-Points:</b>	0, 10, 25, 50, 75, 90, 100% of span	<b>Display:</b>	LCD 4 digits, mA, V, or % of span
<b>Accuracy:</b>	0.1%	<b>Accuracy:</b>	0.05%
<b>Modes:</b>	TxSim, or RxTest	<b>Modes:</b>	RxSim, TxTest, or 50mA/50V measure
<b>Loop Supply:</b>	Internal, 25mA max	<b>Loop supply:</b>	Internal, 25mA max
<b>Auto-Step:</b>	Up/Down/Up, 0.5, 1, 2, 4, or 8sec/step		

## General Specification (Applies to both units unless stated)

<b>Power:</b>	PP3 battery, typical life 40hrs
<b>Dimensions:</b>	L 140mm x W 65mm x D 30mm
<b>Weight:</b>	7006: 180g, 7007: 200g
<b>Optional Extras:</b>	Calibration Certificates – traceable to NPL and UKAS

*Loop-Mates are supplied with a carrying case, leads and technical manual.*

## Ordering Information

Code	Description
7006	Loop-Mate 1
7007	Loop-Mate 2
9145	N.P.L. Traceable Calibration Certificate (7006 and 7007)
9144	UKAS Calibration Certificate (7006 and 7007)

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Time Electronics, Botany Industrial Est. Tonbridge, Kent. England. TN9 1RH.  
Tel: +44 (0)1732 355993 Fax: +44 (0)1732 770312 E-mail: mail@timeelectronics.co.uk

www.timeelectronics.com

V1b 19/05/09