



# 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.

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