



# Time Electronics

## 7006 and 7007 Loop-Mates



- **Pocket sized 140 x 65 x 30mm**
- **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**

### DESCRIPTION

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-Mate 1 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-Mate 2) that the signal is arriving correctly and is within specification.

Loop-Mate 2 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 40 hours continuous use.

### SPECIFICATIONS

#### 7006 Loop-Mate 1

Range..... 4 - 20mA, or 0 - 10V  
 Set-Points..... 0, 10, 25, 50, 75, 90, 100% of span  
 Accuracy..... 0.1%  
 Modes..... TxSim, or RxTest  
 Loop Supply..... Internal, 25mA max  
 Auto-Step..... Up/Down/Up, 0.5, 1, 2, 4, or 8sec/step  
 Power..... PP3 battery, typical life 40 hours  
 Dimensions / Weight..... H140 x W65 x D30mm / 180g

#### 7007 Loop-Mate 2

Range..... 4 - 20mA, 0 - 10V, 0 - 50V  
 Display..... LCD 4 digits, mA, V, or % of span  
 Accuracy..... 0.05%  
 Modes..... RxSim, TxTest, or 50mA/50V measure  
 Loop supply..... Internal, 25mA max  
 Power..... PP3 battery, typical life 40 hours  
 Dimensions / Weight..... H140 x W65 x D30mm / 200g

*Both Loop-Mates are supplied with carry case and user manual*

### ORDERING INFORMATION

**7006**..... **Loop-Mate 1: Loop Simulator/Source**  
**7007**..... **Loop-Mate 2: Loop Signal Indicator**  
 C145..... Factory Calibration Certificate (NPL) – Code applies to 7006 & 7007  
 C144..... UKAS Calibration Certificate (17025) – Code applies to 7006 & 7007

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

Time Electronics Ltd, Unit 11 Sovereign Way, Botany Industrial Estate, Tonbridge, Kent, TN9 1RH. United Kingdom.

T: +44 (0) 1732 355993 F: +44 (0) 1732 770312 E: mail@timeelectronics.co.uk

[www.timeelectronics.com](http://www.timeelectronics.com)

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