



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.



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