Time Electronics

7006 and 7007 Loop-Mates: Loop Simulator and Indicator



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 - 20 mA, or 10 V 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 - 20 mA or 0 - 10 V. 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 - 20 mA, or 0 - 10 V, 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.

Features

- Simple operation, pocket sized loop diagnostic tools
- 4 - 20 mA or 0 - 10 V loops
- 7 calibration set-points
- Loop-Mate 1: Transmitter simulation and receiver test
- Loop-Mate 2: Receiver simulation and transmitter test
- Auto-Step output - adjustable rate
- Battery powered PP3 (both models)
- Internal loop drive supply (both models)
- Supplied with carry case and test leads

Specifications

7006 Loop-Mate1

Range ..... 4 - 20 mA, or 0 - 10 V.
Set-points ..... 0, 10, 25, 50, 75, 90, 100% of span.
Accuracy ..... 0.1 %.
Modes ..... TxSim (transmitter simulation), or RxTest (receiver test).
Loop supply ..... Internal, 25 mA max.
Auto-step ..... Up/Down/Up, 0.5, 1, 2, 4, or 8 sec/step.
Power ..... PP3 battery, typical life 40 hours.
Dimensions / Weight ..... H 140 x W 65 x D 30mm / 180 g.

7007 Loop-Mate 2

Range ..... 4 - 20 mA, 0 - 10 V, 0 - 50 V.
Display ..... LCD 4 digits, mA, V, or % of span.
Accuracy ..... 0.05 %.
Modes ..... RxSim (receiver simulation), TxTest (transmitter test), or 50 mA/50 V measure.
Loop supply ..... Internal, 25 mA max.
Power ..... PP3 battery, typical life 40 hours.
Dimensions / Weight ..... H 140 x W 65 x D 30mm / 200 g.

Ordering Information

7006 ..... **Loop-Mate 1: Loop Simulator/Source**
7007 ..... **Loop-Mate 2: Loop Signal Indicator**

C145 ..... Traceable calibration certificate (Factory)
C144 ..... Accredited calibration certificate (ISO 17025)
Calibration certificate codes apply to 7006 and 7007

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

Time Electronics Ltd, Unit 5, TON Business Park, 2-8 Morley Road, Tonbridge, Kent, TN9 1RA, United Kingdom
T: +44 (0) 1732 355993 | F: +44 (0) 1732 350198 | mail@timeelectronics.co.uk | www.timeelectronics.com

v2b
06/22