Description

The reader unit MF1402 facilitates the connection of a water resistant MF-series iButton to an USB, RS232 or parallel port 1-Wire Adapter. The MF1402 is splashproof and is made from shock-proof plastic. The 180 cm long connection cable, equipped with a RJ11 jack connector, offers sufficient flexibility for almost every application.

The reader's working principle is similar to a spring loaded clamp. After inserting, the iButton is retained by the reader unit, thus enabling comfortable working conditions.

The ergonomic shape as well as the serrated surface of the handholds make the usage of the MF1402 comfortable and slip-proof.
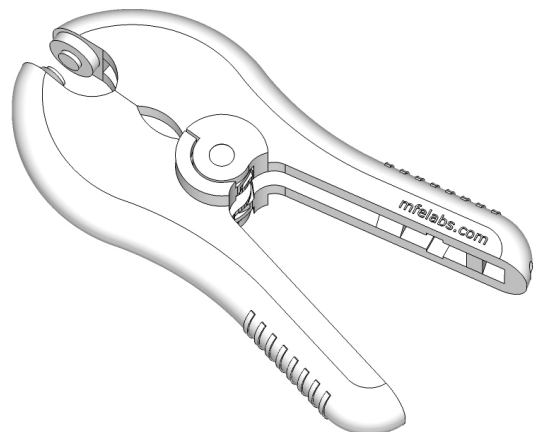
Examples of Accessories

Part	Description
DS9490R#	USB to 1-Wire Adapter
MF1922L	iButton Temperature Logger, Water resistant according to IPX8

Technical Drawing
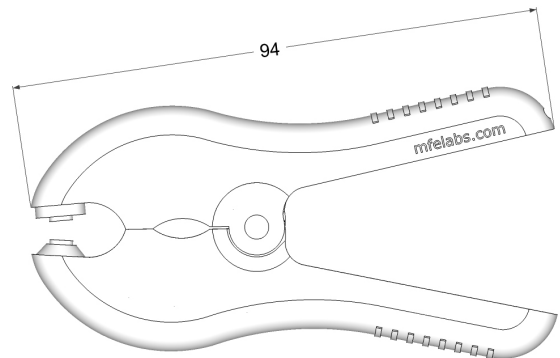
All dimensions are in millimeters.

3D Drawing

Connection cable with RJ11 jack connector not shown.

Absolute Maximum Ratings

Operating Temperature Range   0°C to +50°C
Storage Temperature Range   10°C to +30°C

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Specifications

Parameter	Conditions	MIN	TYP	MAX	Units
Weight	incl. cable		51		grams
Physical Dimensions		See technical drawing			mm
Cable Length			180		cm

Applications Information

The reader unit connects with the RJ11 jack connector to the 1-Wire Adapter (e.g. DS 9490R). Squeeze the spring loaded clamp's two handholds and the front part of the clamp will open. An iButton of the MF-series can be inserted. The contact at the lower part of the clamp is cone shaped and matches only the under side with the smaller recess. The spring mechanism then effectuates the automatic closing of the clamp after being released. Now the iButton can be programmed or read out.

If the iButton is heavily contaminated, it may require a cleaning of the contacts of the upper- and bottom part. When the iButton has had slight contamination or limescale it is important, most of the time, to turn the iButton back and forth to obtain sufficient contact.

For pricing, delivery, and ordering information, please call +49 751 6 528 430 or visit our website at www.mfelabs.com.

Revision History

Revision Date	Description	Pages Changed
2018/09	Initial release.	—