TouchProbe®

An Industry Standard in iButton Data Collection

The TouchProbe is an industry-proven iButton reader. Its rugged durability and real-time internal clock make it ideal for a wide variety of applications such as security and maintenance checks, agriculture, transportation, production, and inventory. The metal case and stainless-steel read head are the key to the TouchProbe's extreme durability. The case protects the electronics against damage and secures the collected data.

Durable iButtons are ideal for applications where environmental conditions prevent the use of other tags such as RFID or bar code labels.

Memory

Thanks to the ample memory capacity of the 128K TouchProbe, over 5,000 reads can be stored before the next download of data. The TouchProbe real-time internal clock date- and time-stamps all transactions.

Battery

The TouchProbe 9-volt alkaline battery provides up to one year of uninterrupted performance.

Touch Memory iButtons

The TouchProbe collects data from iButtons, which can be mounted on almost any object, including containers, pallets, bags, walls, and equipment. iButtons are stainless-steel tags that are highly resistant to environmental hazards such as dirt, moisture, and shock. The compact, coin-shaped iButton is self-aligning with the TouchProbe, allowing for quick, easy reads. With one touch, the TouchProbe reads the iButton ID.

Downloading

The TouchProbe downloader station provides the communications link between the TouchProbe and the computer. Additionally, the downloader is able to communicate with a PC laptop without external power, providing complete portability.

Specifications

TouchProbe	
Physical	Extruded and cast metal case, weather-resistant
Weight	5.1 ounces (146 g)
Dimensions	5.2” x 1.6” x 0.8” (132 x 42 x 23 mm)
Memory	128K battery-backed RAM
Storage Capacity	5000 iButton ID reads
Battery	1 alkaline, 9-volt (9V); backup lithium battery
Battery Life	9-volt alkaline main battery up to 1 year of charge
Clock	Real-time; set automatically from computer during communication
Communications	Serial base station
Transfer Rate	Baud rate 1200 to 19.2K
Data Output	ASCII text file
Visual	LED flash after successful read or write
Audio	18 tone patterns including good read and memory almost full
iButton	Reads ID of all Maxim iButtons; option to read data stored in 1991, 1992, 1993, and 1994
Storage Temperature	-4° to 130° F (-20° to 54° C)
Operating Temperature	-4° to 130° F (-20° to 54° C)
Humidity	95% noncondensing
Downloader	
Dimensions	4.0” x 4.0” x 1.8” (102 x 102 x 46 mm)
Weight	8.2 ounces (232.5 g)
Number of Readers	1
Connections	Computer Standard RS232, Power
Operating System	Windows
Power	120 V, 60 MHz; 220 V, 50 MHz
Indicator Lights	Transmit, Receive, Power
Serial Communication	Standard RS232
iButton Specifications	
Physical	Memory chip stored inside button-shaped, water-resistant, stainless-steel case
Dimensions	3 mm button: 0.64” D x 0.12” H (16.3 x 3.2 mm), 5 mm button: 0.64” D x 0.23” H (16.3 x 5.9 mm)
Weight	3 mm button: 0.057 ounces (1.6 g), 5 mm button: 0.120 ounces (3.3 g)
Operating Temperature	-40° to 185° F (-40° to 85° C)
Battery	None
Data Storage	Unique 48-bit serial number (read only)

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