



Application Note #27

MicroProx® Tag

P/N 1391

Introduction to the MicroProx Tag:

The MicroProx Tag provides the convenience of HID's proximity technology in a small disk-shaped transponder. Simply attach the adhesive-backed Tag to any nonmetallic card or device for an instant proximity credential.

Advantages of using the MicroProx Tag:

- Seamlessly upgrade from Wiegand, magnetic stripe or barium ferrite technologies by simply adhering the Tag to your existing access card*.
- Easily and cost-effectively turn a plastic ID badge or contact smart chip card into a proximity credential.
- Add proximity access control capability to users' cell phones, PDAs and other similar nonmetallic devices.
- Experience the convenience of proximity without the expense of rebadging.

Features:

- The Tag easily attaches to all nonmetallic materials.
- The Tag can be programmed in any HID proximity format, and is compatible with all HID proximity readers.
- The Tag is RF-programmable for ease of encoding with HID's ProxProgrammer®
- Attaches easily to cell phones, PDAs, and other objects.
- RF programmable, 125 kHz, customer specified numbers.
- Over 1.9×10^{25} unique codes available.

*Due to variations in cards and reading devices, HID does not claim that the MicroProx Tag will work in every situation. Functional and non-functional MicroProx Tags are available for compatibility testing with existing credential and reader technologies. Compatibility should be confirmed prior to ordering.

Adhesive Tag Considerations:

- If adhering the tag to a magnetic stripe card, carefully place the tag so it will not interfere when sliding the magnetic stripe through the swipe reader.
- If adhering the tag to a Wiegand card, carefully place the tag so it will not interfere with sliding the Wiegand load through the swipe reader.
- If adhering the tag to a card with an embedded contact smart chip module, place the tag on the end of the card opposite the contact module.
- If adhering the tag to a cellular telephone or PDA, verify that the location of the tag will not interfere with placing the device in its docking station or charger. Also, confirm the housing is not metal, as it will render the tag inoperative.
- The adhesive used is a 3M industrial strength adhesive. The tag is intended to be adhered to an object only once. It is not designed to be easily removable and reused. Attempts to remove and reused the tag will likely result in irreparable damage to the tag.

Other Considerations When Using the MicroProx Tag:

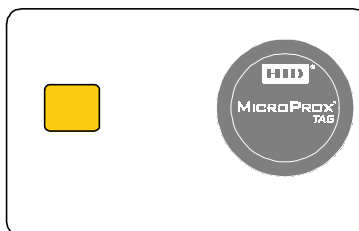
- The MicroProx Tag is not for use on cards that use full insertion or tractor feed type readers.
- Do not adhere to metal surfaces. Metal shields the RF, making the tag inoperable.

Specifications:

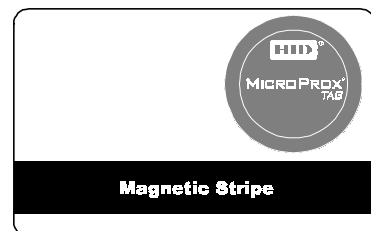
- **Data Storage:** Up to 84 bits (Over 1.9×10^{25} codes)
- **Dimensions:** Diameter: 1.285" (3.264 cm); Thickness: 0.070" (0.178 cm)
- **Outer Shell Material:** Lexan
- **Operating Temperature:** -50° to 160° F (-45° to 70° C)
- **Weight:** 0.04 oz (1.18 g)



Wiegand Swipe card



Contact Smart Chip



Magnetic Swipe card