

Nohmad GPRS Attendance Terminal

HOW IT WORKS

The Nohmad Terminal brings together two modern technologies. A portable electronic ID housed in a durable stainless steel can called an iButton™, and the GPRS wireless network used by mobile phone users worldwide.

GPRS is a data service available to users of GSM (Global System for Mobile Communications). Unlike a normal phone call, GPRS connections are 'always on' and are charged by the amount of data transferred instead of the length of time the call is made for. This is ideal for a real-time device like the Nohmad, where data has to be sent to the host immediately but occurs at irregular intervals.

Each iButton™ has a unique and unalterable identity which is used by the Nohmad to identify individuals using the system. A user simply touches their iButton™ onto the Nohmad and the ID number is read instantaneously. Visual and audio indicators provide user feedback.

The Nohmad adds the current date and time to the user's ID and sends this data as a TCP/IP message to a host server, anywhere in the world. The information is usually available for processing within moments. If the GPRS network is temporarily unavailable, Nohmad stores the data in internal memory and then sends the stored data as soon as a network connection is re-established.



The Nohmad sends information via GPRS (the mobile phone network), allowing employees to electronically 'sign' in and out when entering or leaving worksites.

Economic to install and easy to use, the Nohmad provides employers with an instant snapshot of where their workers are at any given moment. The worker places their token – about the size of a pound coin, and just as robust – against the base station. The information confirming the identity of the employee and the date and time of their arrival or departure, is then sent to a designated server where the data is recorded and can be analysed as required.

Traditional attendance terminals operating in real time generally need to be connected to some sort of physical communications network, often the user's LAN. The Nohmad does not. These advantages, along with its modest costs, make it an ideal device for industry sectors supplying low margin services across multiple sites that also require both accurate and immediate attendance records.

- Accurate and reliable information
- Real time Monitoring
- Affordable Technology
- Simple to Install
- Simple to Use

SPECIFICATION

Power:	Low power 5v DC mains adaptor, 0.5W average
Environmental:	-20C° to +40C°, 95% humidity (non condensing)
Dimensions:	165mm x 66mm x 50mm
Installation:	2 x No. 6 screws or adhesive pad
Media:	Serial number iButton™
Indicators:	Bi-colour illuminated iButton probe. Two single-colour LED status indicators. Audible buzzer
SIM card:	Easy-install hinged SIM connector
SIM Set-up:	Serial link to PC
Cellular radio:	Quad GSM band (800/900/1800/1900 MHz)
Cellular data:	GPRS class 10 (packet)
RF connection:	Built-in dual-band antenna (900/1800 MHz) External antenna connection and optional high-gain external antenna
Processing:	104MHz, 32 bit ARM9 wireless processor
Clock:	Battery-backed Real Time Clock with calendar

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