The N-485-API-2, N-485-PCI-2, and N-485-HUB-2 interfaces can be used with your current N-1000-II and any version of PC-PAK or WIN-PAK software. The new ACK/NAK protocol requires Win-Pak V1.12 or higher.

All data communications are continually supervised when using the ACK-NAK protocol.

The interfaces provide automatic buffering of panel information upon loss of communication to the host computer, HUB or PCI (using ACK-NAK).

Distances of up to 4000' can be reached with the interfaces. Greater distances can be accomplished with the N-485-RPT (repeater).

Built in features make them highly immune to outside interferences.

The N-485-API-2 is not required with the N-1000-III or the N-1000-IV.

The N-485-API-2 (Access Control Panel Interface) provides an RS485 communications interface to your existing N-1000-II. The N-485-API-2 interface converts the 20mA current loop supplied by the N-1000-II to an RS485 signal which can be used on the multi-drop line. Northern’s RS485 multi-drop line can support up to 3 RS485 nodes.

The N-485-PCI-2 and N-485-HUB-2 interfaces convert RS485 to RS232. The N-485-PCI-2 is used at the computer for a direct connect system. The N-485-HUB-2 is utilized with an auto-dial modem at a remote location, and comes with plus in power supply.

Use of the N-485 interfaces will increase the communication speed as well as data integrity. For those high security applications involving supervised communications, a N-485 interface is a must.
**N-485-API-2  N-485-PCI-2  N-485-HUB-2**

Interfaces

**Specifications**

**Physical Dimensions** ....  Circuit Board - 3.75"W x 4.5"L

**Connections** ...............  Screw down terminal strip

**Cable Specifications** ..... 120 Ω characteristic impedance
                             20.3 pfd or less
                             NC2021-GY-A
                             NCP2022-WH-A (plenum)

**Electrical** ..................  N-485-PCI-2/RPT - 9 Volt AC/100mA (included).
                               N-485-API-2 - 9 Volt DC/100mA.

**Communications** ............ Asynchronous, Half Duplex, 38.4K baud

**Distance** .................... 4000’ Multi-drop line

**Additional** .................. A 9 volt AC transformer is supplied
                               with each N-485-PCI-2

**Ordering**

*N-485-PCI-2* ...... Personal Computer Interface
                   (One per Com Port)

*N-485-API-2* ...... N-1000-II Control Panel Interface
                   (One per panel)

*N-485-RPT* ...... RS-485 Repeater

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[Image of a diagram showing the interfaces and connections]