2.3.4 Connecting Mouse or Trackball and Keyboard

The mouse connects to the “COM2/V24” (COM2 – device rear) connector of the base unit.

☞ A trackball can take the place of the mouse without changing the configuration (with OS–SET select the 3–button mouse; beleow it is always only called mouse).

The keyboard connects to the “Keyboard” connector (PS/2 connection on the device rear with RI45).

2.3.5 Signal Module Connections

There are interfaces for the following functions on the signal module:

- Color graphics printer control
- Watchdog
- Audible indicator

Watchdog and audible indicator outputs are relay contact outputs (single–pole changeover contact). Please refer to Section 4.8 for details.

A connecting cable with connectors for the color graphics printer is available. The pin assignments of both connectors are specified in Section 4.8.3.

2.3.6 Connection to the SINEC H1 Bus

The CP 1413 communication processor in the OS 525 base unit (terminal, host, or central engineering workstation) permits the OS 525 to be connected to the SINEC H1 bus via bus coupler modules.

An interface multiplexer may be installed between bus coupler module and OS 525 base unit (see Fig. 1.4). The individual components (terminal, host, or central engineering workstation) of such a configuration may communicate with one another without a SINEC H1 bus (provided that the switches of the interface multiplexer have been set to ’internal’).

Readily available connecting cables (727–1) are used to connect bus coupler module and interface multiplexer, interface multiplexer and bus device, and bus coupler module and bus device (cf. Connecting cable summary). Please refer to Section 4.5 for the connector pin assignments.

2.3.7 Connection to the Local CS 275 TELEPERM Bus or SINEC Process Bus

2.3.7.1 CS 275 TELEPERM Local Bus

The connection between the N–AT interface module and the local TELEPERM bus is established via a connecting cable with a 25–way trapezoidal socket with metallic hood and screw locks at the N–AT end, and a TELEPERM ES 902 connector with metallic hood and screw locks at the local bus end.

Either connector must carefully be screwed on.

Note

Despite proper connection of central grounding point and mains protective ground there may still be potential differences between PC housing and screen/connector hood of the connecting cable. This will lead to touch potentials when the connecting cable is plugged in.

Please observe the Installation Instructions for the individual components when you install a CS 275 bus system. Power supply connection and grounding via the central grounding point are discussed in Section 2.2.11.

Ensure that proper contact exists between the screen of the connecting cable and the enclosure when you commission the N–AT in the base unit!

Additional cabling between personal computer and grounding bar or central grounding point is not necessary. Ground connection is established via the protective ground conductor of the mains cable.

The bus interface isolation on the N–AT module causes the module's ground potential to be floating with respect to the PC ground potential. The connecting cable pulls the 0–V level of the interface logic to the ground potential of the local bus. This enables the maximum potential difference of 0.2 V between bus ground and device ground to be maintained for each device.

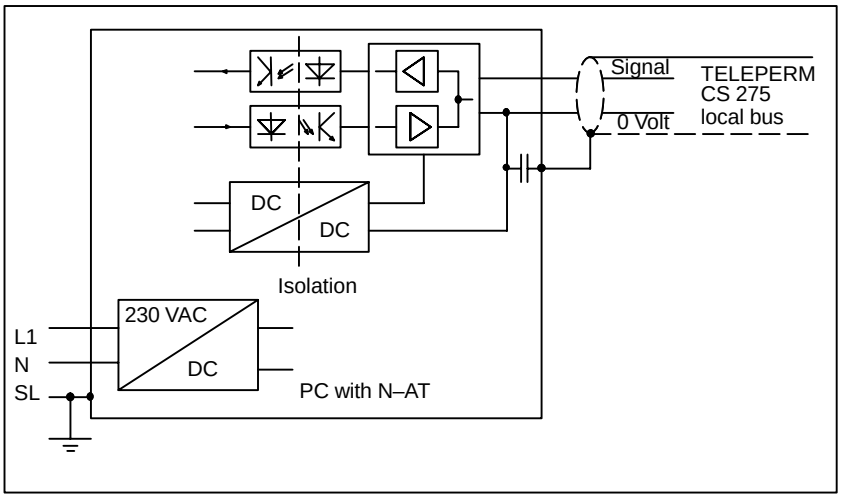

Fig. 2.9 Isolation of the N–AT module