

Line sensor acquisition unit (board)

Each board controls up to 16 transducer lines cyclically measuring each line for the following:

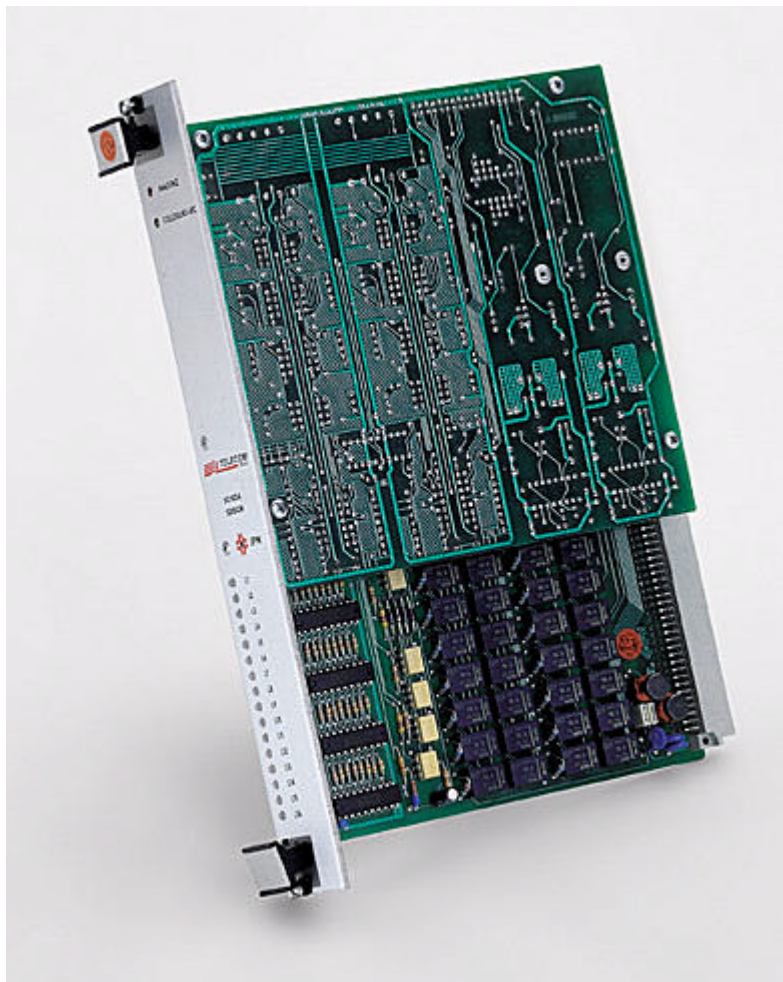
- Noise level on the telephone band;
- Insulation
- Off-load voltage between wires A and B
- Quiescent current

These values are also taken for each transducer:

- Pressure value
- Received-signal level
- Working current

The board contains two identical measurement banks which can work independently of each other; the sixteen lines are taken to the two measurement banks via a 16 x 2 matrix, which means each bank can work on all the lines. This configuration enables the maximum system flexibility and guarantees a maximum measurement-cycle time of less than 20 min. (with all the lines fitted with 127 PT).

Each transducer has two alarm thresholds that can be programmed absolutely or as a percentage, and collectively (i.e. for the entire line) or per individual transducer.

**Main measurement-features:**

- | | |
|------------------------|--|
| - Noise | +3 to -60 dBm |
| - Insulation | 1K to 60Mohm |
| - Off-state voltage | 0 to 128 V DC/V AC |
| - Quiescent current | 0 to 25.5 mA |
| - Pressure (frequency) | 800 to 2200 hPa absolutes
(measured only if the Rx level is between +3 e -40 dBm) |
| - Level | +3 to -60 dBm |
| - Working current | 0 to 25.5 mA |

***Pressure
Transducers***