CLAIMS

1. Non-destructive testing system, comprising as constituent elements a non-destructive electronic measurement device (26) able to be connected to a non-destructive measurement sensor of the type intended to be held in the hand for taking test measurements, and linked to an electronic card (20) itself linked to an electrical power supply source (21) and to a viewing and control screen (27), and connecting cables for electrically and electronically linking said constituent elements to one another, wherein:

- said constituent elements and said connecting cables are incorporated into a vest type of garment (1), ~~and~~

- wherein a connecting cable (34) for linking the electronic measurement device (26) and a measurement sensor comprises, at an end to be connected to said sensor, a connector (35) placed on the outside of the vest (1), on a sleeve (3) of said vest,

- and said system comprises an adjustment device for adjusting the position of the electrical power supply source (21) in said vest (1), said adjustment device comprising means (22, 23) of guiding the movement of said electrical power supply source (21) between defined positions on the vest (1), and means (24, 25) of reversible immobilization in each of said defined positions.

2. System according to claim 1, wherein said connector (35) is placed on said sleeve (3) close to the wrist.

3. System according to claim 1 or 2, characterized in that the electronic measurement device (26), electronic card (20), electrical power supply source (21) and the connecting cables are arranged on a surface called the inside surface (4) of said vest (1) intended to be placed facing a user's body.

4. System according to claim 3, characterized in that said vest (1) comprises an outer cover (2) and a removable inner lining, and in that the electronic measurement device (26), electronic card (20), electrical power supply source (21) and connecting cables are arranged between said outer cover and said inner lining.

5. System according to any one of claims 1 to 4, characterized in that the vest (1) comprises, on a surface called the outside surface (5), a pocket (7) for receiving a viewing and control screen (27), and in that said vest is pierced, inside said pocket, by a hole (8) for the passage of a connecting cable (32) linking said screen and said electronic card (20).

6. System according to any one of claims 1 to 5, characterized in that a viewing and control screen is incorporated into a sleeve (3) of said vest (1).

7. System according to any one of claims 1 to 6, characterized in that the vest (1) comprises, on a surface called the outside surface (5), a pocket for receiving said measurement sensor.

8. System according to any one of claims 1 to 7, characterized in that it comprises lighting means (28) arranged on a surface called the outside surface (5) of the vest (1), preferably on a sleeve (3) of said vest.

~~**9.** System according to any one of claims 1 to 8, characterized in that it comprises an adjustment device for adjusting the position of the electrical power supply source (21) in said vest (1).~~

~~**10.** System according to claim 9, characterized in that said adjustment device comprises means (22, 23) of guiding the movement of said electrical power supply source (21) between defined positions on the vest (1), and means (24, 25) of reversible immobilization in each of said defined positions.~~