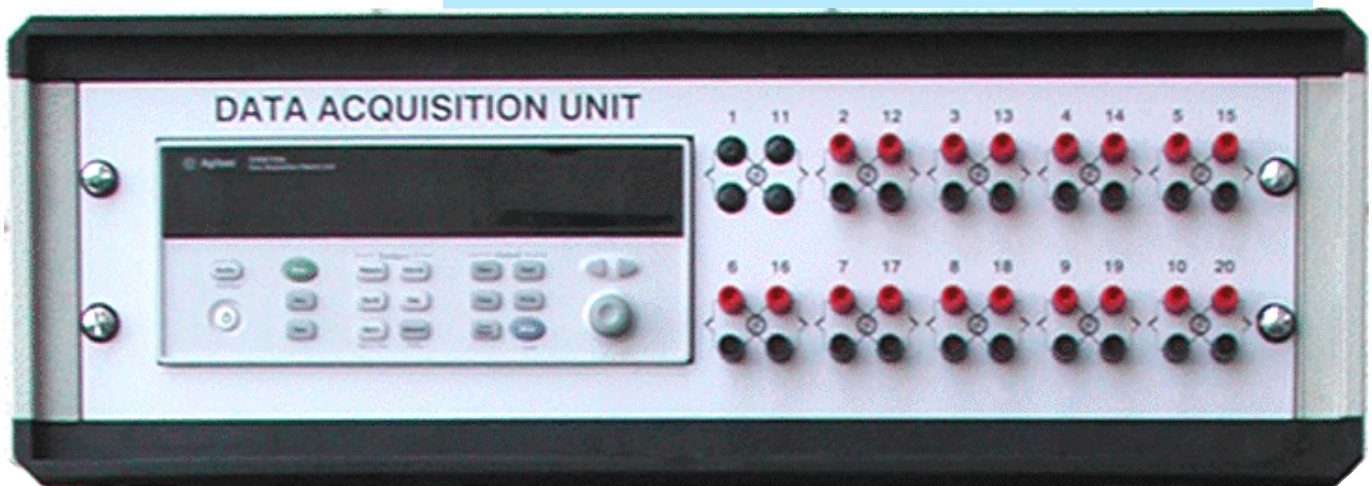


T.D.A.

MULTICHANNEL TEMPERATURE ACQUISITION UNIT



Application:

Automatic check of several temperature sensors

Maximum configuration:

58 thermocouples (J, K, T, R, S, B, N, E) with compensation of the cold junction with PT100 probe, class A

30 PT100 4 wires



GIUSSANI

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MULTICHANNEL TEMPERATURE ACQUISITION UNIT



APPLICATIONS

Automatic check of several temperature sensors; the system used in combination with the Professional AQ2sp software can automatically carry out calibrations by comparison.

TECHNICAL CHARACTERISTICS

The system is composed by a data acquisition unit (HP 34970A) and some panels which can be configured according to operating requirements.

The HP data acquisition unit incorporates a precision multimeter (6 1/2 digits); in the rear panel of this instrument there are three slots which can house relay commutating units for measuring directly thermocouples, RTD.

The interfacing panels with external connections can be configured in relation to the signals to be acquired. Standard panels are provided with golden bushings which can be used with wires or banana terminals (4 mm); it is also possible to use directly compensated plugs/sockets ideal for thermocouples. The systems configured for reading thermocouples are manufactured by compensating the cold junction by means of a PT100, class A, and compensated connection cables too.

It is possible to configure a channel of the system as a standard reference (either PT100 or thermocouple) and to obtain a S.I.T. certification of the channel; in that way, the system is complete, compact and ideal for solving calibration problems within ISO 9000.



CONFIGURATIONS

1 UNIT HP34901A (DIMENSIONS 540 x 180 x 600 mm)

- 9 PT100 4 wires (precision ± 0.06 °C)
- 18 thermocouples (typical precision ± 1.2 °C)
- 18 PT100 2 wires

2 UNITS HP34901A

- 19 PT100 4 wires (precision ± 0.06 °C)
- 38 thermocouples (typical precision ± 1.2 °C)
- 38 PT100 2 wires

3 UNITS HP34901A

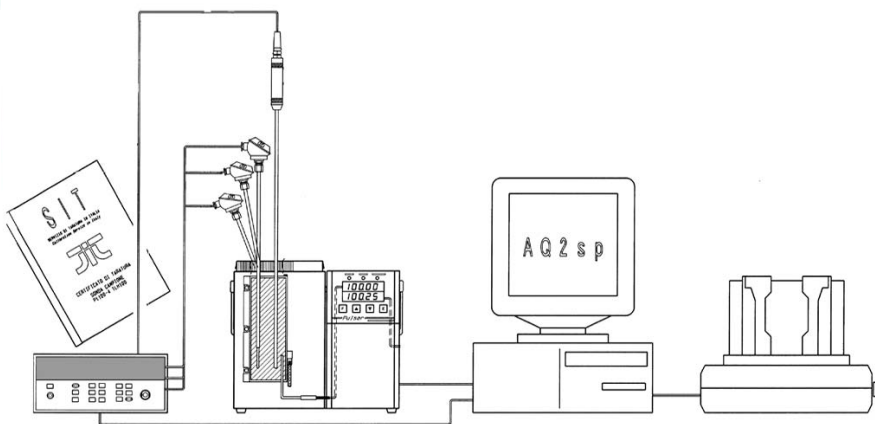
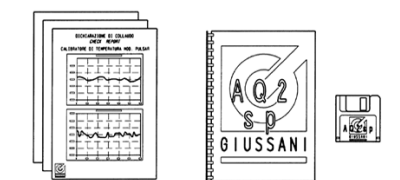
- 29 PT100 4 wires (precision ± 0.06 °C)
- 58 thermocouples (typical precision ± 1.2 °C)
- 58 PT100 2 wires

CODES

TDAHP1RTD10
TDAHP1TC18

TDAHP2RTD20
TDAHP2TC38

TDAHP3RTD30
TDAHP3RTD58



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CERTIFICATION

All Instruments are fitted with an inspection, stability and precision report traceable to S.I.T. standard

A QUESTION OF CALIBRATION