# C.A 6255 MICROHMETER

| ⚠ | **READ** the user manual carefully<br>**COMPLY** the precautions for use | ⚠ |

# FUNCTIONS OF THE KEYS

The secondary functions of the keys (written in yellow Italics below each key) can be accessed by a short press on the yellow key, then on the key concerned.

**2nd** Activate the secondary function of a keys. The *2nd* symbol appears on the screen.

**ᴧ/ᴧ** Before starting the measurement, select the desired measurement mode: inductive mode, noninductive mode or non-inductive mode with automatic triggering.

**METAL** Select the metal for the temperature compensation calculation: Cu, Al, or Other metal

**R(θ)** Activate/deactivate the temperature compensation function to calculate the resistance measured at a temperature other than the measurement temperature.

**ALARM** Activate/deactivate the alarms. The directions and high or low triggering values are adjusted in SET-UP

**MEM** Store the measurement at an address identified by an object number (OBJ) and a test number (TEST). Two presses on MEM are required = confirmation of the location (can be changed using the ▲ ▼ and ►keys), then storage.

**MR** Retrieve stored data (this function is independent of the setting of the switch) except in the OFF and SET-UP positions. The data are viewed using the ▲ ▼ and ►keys. The R(θ), ᴧᴧ/ᴧᴧ and ALARM keys can be used.

**▲** In SET-UP mode, select a function or increment a flashing parameter.

**▼** In SET-UP mode, select a function or decrement a flashing parameter

**►** Select the parameter to be modified (in wraparound mode, from left to right). In SET-UP mode, access the adjustments of a function.

**■** In SET-UP mode, shift the decimal point and select the unit.

**PRINT** Immediate printing of the measurement to a serial printer. If the temperature compensation function has been activated, the calculated result and the temperatures concerned are also printed.

**PRINT MEM** Print stored data to a serial printer.
1st press: the starting OBJ:TEST number appears on the secondary display and the ending number on the main display (they can be changed using the ▲ ▼ and ► keys); press PRINT again to start printing.

**-☀-** Activate/deactivate the backlighting of the display unit.

**●))))** Activate and adjust the sound level/deactivate the audible signal.

| | Parameter to be modified | Key | Display | | |
|---|---|---|---|---|---|
| | | | Main | Secondary | Symbol |
| ▲ (1$^{st}$ push) | **RS** Communication | ▸ | Prnt | rS | - |
| ▲ (2$^{nd}$ push) | **BUZZ** Buzzer sound level | ▸ | - | BUZZ | ((((●)))) |
| ▲ (3$^{e}$ push) | **EdSn** Display of serial no. | ▸ | Number | Edsn | - |
| ▲ (4$^{e}$ push) | **EdPP** Display of program no. | ▸ | Number | EdPP | - |
| ▲ (5$^{e}$ push) | **Lan9** Printing language | ▸ | L9F | Lan9 | - |
| ▲ (6$^{e}$ push) | **trEF** Reference temp. | ▸ | Value | trEF | °C |
| ▲ (7$^{e}$ push) | **tAnb** Ambient temp. | ▸ | nPrb | tAnb | °C |
| ▲ (8$^{e}$ push) | **nEtA** Metal selection | ▸ | Value | nEtA | Cu or AI or Other metal |
| ▲ (9$^{e}$ push) | **ALPH** Other metal coeff. | ▸ | Coeff. value | ALPH | Other metal |
| ▲ (10$^{e}$ push) | **dE9** Temperature unit | ▸ | dE9c | dE9 | - |
| ▲ (11$^{e}$ push) | **ALAr** Alarms (values and directions) | ▸ | Value | ALAr | ALARM + ((((●)))) |
| ▲ (12$^{e}$ push) | **LI9H** Duration of baclighting | ▸ | T = 1 | LI9ht | - |
| ▲ (13$^{e}$ push) | **nEn** Erasure of memory | ▸ | dEL | nEn | - |

| Value | Changing of values |
|---|---|
| Prnt / OFF / tri9 / PC / ut100 + rate | - type of communication : successive presses on ▲<br><br>- speed regulation: ▶ then ▲ |
| Low / hight or OFF | - successive presses on ▲ |
| - | - |
| - | - |
| Fr / 9b | - press on ▲ |
| -10 … 55°C | - press on ▶ to change the digit<br><br>- press on ▲ to change the value of the digit |
| Prb or nPrb<br>if nPrb : -10 … 55°C | - presence or absence of sensor ▲<br><br>- if nPrb : ▶ then     - press on ▶ to change the digit<br>                     - press on ▲ to change the value of<br>                     the digit |
| Cu or AI or Other metal | - successive presses on ▶ |
| 0 … 100,00 ($10^{-3}$/°C) | - press on ▶ to change the digit<br><br>- press on ▲ to change the value of the digit |
| dE9c (°C) or dE9F (°F) | - press on ▲ |
| ALARM 1 or 2 / ▲ or ▼ /<br>5mΩ to 2500Ω | - choice of parameter to change : successive presses on ▶<br><br>- modification of the parameter: ▲ |
| 1 mn / 5 mn / 10 mn or OFF | - press on ▲ |
| dEL or dEL O<br>(all memory or object) | - press on ▲ then ▶ |

# LIST OF CODED ERRORS

Err 1    Battery charge too low
Err 2    internal problem
Err 3    Impossible to measure battery charge
Err 4    Impossible to measure temperature
Err 5    Internal temperature too high - Let the instrument cool down
Err 6    Measuring current not established
Err 7    Measurement out of range
Err 8    Internal problem
Err 9    Measurement cycle stopped
Err 10   Temperature sensor incorrectly connected or missing
Err 11   Current-circuit wires incorrectly connected
Err 12   Voltage-circuit wires incorrectly connected or measured resistance too high
Err 13   Residual voltage too high
Err 21   Adjustment out of bounds
Err 22   Measured value out of bounds
Err 23   Edition out of bounds
Err 24   Cannot write to back-up memory
Err 25   Cannot read in back-up memory
Err 26   Memory full
Err 27   Memory empty: no data available
Err 28   Memory check problem
Err 29   Object or test number incorrect


**Warning:**
**If error message 2, 3, 4, or 8 appears, the instrument must be switched off and sent to a qualified organization for repair.**

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