

Additional Operating Instructions **ComBi-D3 Plus**

for coating thickness gauge **SaluTron-D3/D4/D5 Plus**
with storage and interface: USB (virtual RS-232) to PC or HP-Infrared pocket printer

<i>Device type:</i>	D3/D4/D5 Plus
<i>Storage capacity:</i>	8192 locations, which can be subdivided in max 99 blocks. Each block can contain max 999 measurements.
<i>Switching on:</i>	press short the ON/OFF key or start direct the measure by placing the probe on the measuring surface. The gauge shows short on display the type of the device: d3n (D3 Plus) / d4n (D4 Plus) / d5n (D5 Plus) and then switches the display to last measured value or starts the new measurement.
<i>Switching off:</i>	press long (min 2 sec.) ON/OFF key Automatically: after 40 sec. in normal and continue mode after 3 min. in memory mode
<i>Menu of device:</i>	press short the MODE key
rSF (reset)	reset the on going average value in normal (no memory) mode. The singles measurements are not stored, but the device calculates after every measurement the new average. ENTER Key → YES → MODE Key → no → confirm with ENTER YES (yes)- average reseted no (no) - average not reseted
GAG (gauge) displayed only by ComBi-D3Plus device	choice of measuring mode: FE (ferro) - only on steel or ferro. The icon Fe will be displayed nFE (yes) - only on non ferro. The icon nFe will be displayed AUF (automatic) - automatically, before measurement the device checks the type of basic material. The small icon AUTO will be displayed ENTER Key → FE → MODE Key → nFE → MODE Key → AUF → confirm with ENTER
Mod (mode)	choice of working mode: PnF (point) - one point measurement without storing CnF (continue) - continue measurement without storing – scanning mode (2 times per sec.) during the probe placed on the surface. The small icon CONT will be displayed. nEN (memory) - Memory mode. One point measurement with storing. The second beep signal indicates the storing of the measurement. The small icon MEMO will be displayed. Before measurement shows the gauge short a small icon n (left at the upper corner) with the number of the measurement in active block. ENTER Key → PnF → MODE Key → CnF → MODE Key → nEN → confirm with ENTER
blc (block) displayed only in memory mode	press ENTER key to create a new or open an existing block. The number of the block could be increased with MODE and decreased with ZERO key.
SFA (statistic) displayed only in memory mode	display of statistic values: SFI (statistic one) - statistic based on the measurements in active block SFA (statistic all) - statistic based on the measurements in all blocks ENTER Key → SFI → MODE Key → SFA → confirm with ENTER to display statistic values: icon n - number of measurements icon Min - minimum value icon Max - maximum value icon Ave - average value icon Dev - standard deviation icon Ave/Dev - variations coefficient in % n → Mode Key → Min → Mode Key → Max → Mode Key → Ave → Mode Key

	→ Dev → Mode Key → Ave/Dev → Escape with ZERO Key
dEL (delete) displayed only in memory mode	delete last action or all contain of the memory: LSF (last)- last stored measurement or just new created or opened block will be deleted. After this you will see shortly the number of active block with the number of measurement. ALL (all) - all data in memory will be deleted. After this the device displays shortly dnE (done). ENTER Key → LSF → MODE Key → ALL → confirm with ENTER → dE? (delete?) → Confirm with ENTER to delete
Prn (print) displayed only in memory mode	send data from memory to personal computer or printer: OnE (yes) - send data from active block as measuring report with statistic and histogram ALL (all) - send all data from memory as measuring report with statistic and histogram dRF (data) - send only all measurements from memory without measuring report (only with USB possible) ENTER Key → OnE → MODE Key → ALL → MODE Key → dRF → confirm with ENTER
Unf (unit)	Choice of displayed measurements unit: 25.4 (25.4µm) - active unit is µm/mm 1.00 (1.00mil) - active unit is mil ENTER Key → 25.4 → MODE Key → 1.00 → confirm with ENTER
bEP (beep)	beep signal switch on/off when a key pressed: On (on) - beep is switched on OFF (off) - beep is switched off ENTER Key → On → MODE Key → OFF → confirm with ENTER
PrF (port)	choice of data transfer port: rS (RS232) - data transfer via USB (virtual RS232) active (9600, 8, 1, n, xon/xoff) Ir (infrared) - data transfer via infrared transmitter active (Hewlett Packard format) ENTER Key → rS → MODE Key → Ir → confirm with ENTER
onL (online)	directly measurement online transfer switch on/off. If infrared transmitter is used, online transfer starts by ENTER key press. On (on) - online transfer active OFF (off) - online transfer not active ENTER Key → On → MODE Key → OFF → confirm with ENTER
Sn (serial number)	display of gauge's serial number
Other possible signs on display	
Er0 (Error 0)	gauge lifted up from surface, before measuring process terminated. Handling error: wait until beep
Er1 (Error 1)	you try to zeroing the gauge on wrong material. The difference in measuring signal between zero and infinity to small. Zeroing error: try to zeroing the gauge on right zero plate in carry case
Er5 (Error 5)	memory is full. No more measurements can be stored. Delete the contain of memory
Er7 (Error 7)	block is full. No more measurements can be stored in the currently block. Create or open a new block
no (no)	block's number error. You enter the wrong number of the block.
b0l (block 01)	Display of block's number
PO.0 (thickness – point 0.0)	place the probe on the zero. Zeroing procedure.
Pln (thickness – point infinity)	lift up the probe from the zero plate. Zeroing procedure
---	data is transferred to personal computer or printer. This process depends of the number of stored data in gauge can take a long time.