

TESA DIGICO 1 and 2 Electronic Indicators

Both models are remarkable for their versatile functions, long measuring travel, high accuracy.

- Analogue and digital display; the latter can be displaced for easy reading in any position.
- Zero setting at any point within the measuring span.
- Data input through the keyboard.
- Counting sense reversal.
- Entry of limit values for classification through displayed symbols.
- Additional green, red or amber coloured background in case the tool is connected to the mains.
- Value storage by means of the functions «Highest value», «Lowest value» or «Highest value minus lowest value».



LC display
with coloured
background



6 decades plus
minus sign



9 x 4,5 mm digit
height (H x W)



See table
opposite



Metric/inch
conversion



40 mm
scale length



25 scale divisions



According
to selected
tolerances



30,4 mm
(DIGICO 1)
or 60,4 mm
(DIGICO 2)



Incremental
glass scale
max. 1 m/s



Max. 1 m/s
(DIGICO 1) or
max. 2 m/s
(DIGICO 2)



Plunger
guiding on a
plain bearing
Measuring insert with
M2,5 thread



DIGICO 1: 2 µm
DIGICO 2: 3 µm



1 µm



1 µm



See table
on page E-9



RS 232



3,6 V
lithium battery
or mains adapter



TESA Models

No		mm	mm	in	in
01930000	DIGICO 1	30	0,001 / 0,01	1.18	0.00005 / 0.0005
01930001	DIGICO 2	60	0,001 / 0,01	3.36	0.00005 / 0.0005

IP54 model with rubber bellow

S19060524	DIGICO 1	30	0,001 / 0,01	1.18	0.00005 / 0.0005
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COMPAC Models*

01990004	MC 2030-MT	30 mm model with 9 pairs of tolerances
01990006	MC 2060-MT	30 mm model with 9 pairs of tolerances
S19070744	MC 2030-FC	30 mm model with correction against 2 reference standards

* As for TESA DIGICO 1 and 2, all indicated data depend on the measuring span.

≈ 1000 h with lithium battery

0,002% /°C

10°C to 40°C

-10°C to 50°C



Housing of regular models to IP 54 (IEC 60529)

290 g (DIGICO 1)
310 g (DIGICO 2)
Moved mass through the measuring bolt:
28 g (DIGICO 1)
27 g (DIGICO 2)

Supplied in a suited carrying case along with
1 lithium battery
No. 01960007 and
1 lever No. 01960005

Identification number

Inspection report with a declaration of conformity



Measuring force



DIGICO 1

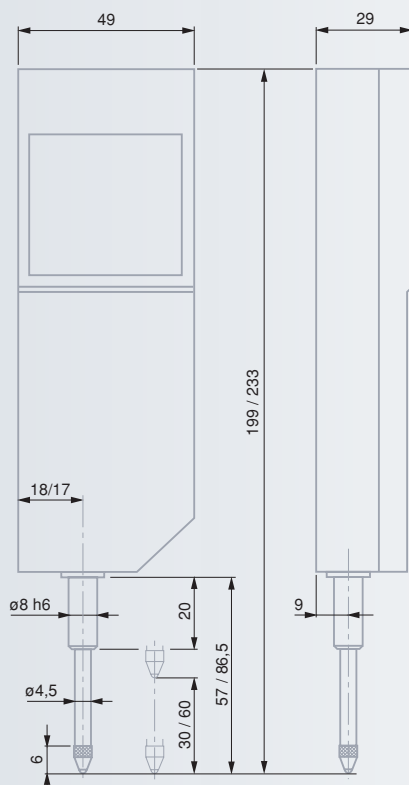
DIGICO 2

Measuring force* close to plunger stop

– bottom 0,85 N ± 0,15 N 0,90 N ± 0,20 N
– top 1,10 N ± 0,20 N 1,45 N ± 0,25 N

Hysteresis* 0,10 N 0,15 N

* Valid with the indicator used vertically, with downward oriented plunger, or in static measurement.

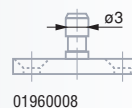


Accessories for TESA DIGICO 1 and 2

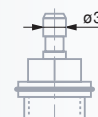


04761037	230 V mains adapter, 50 Hz, 9 V, 200 mA, 1,8 VA
04761057	110 V mains adapter
01960007	3,6 V lithium battery, LR6, AA
01960005	Lever for plunger retraction
01960009	Connector for vacuum plunger lift, suitable for DIGICO 1
01960008	Same as above, but for DIGICO 2
01960010	Connector for pneumatic plunger retraction, suitable for DIGICO 1 only
01960011	Adapter for use of the mains adapter together with the switch for triggering data transfer
04768000	Hand switch for triggering data transfer

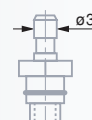
For ordering information on connecting cable etc., see section N



01960008



01960009



01960010



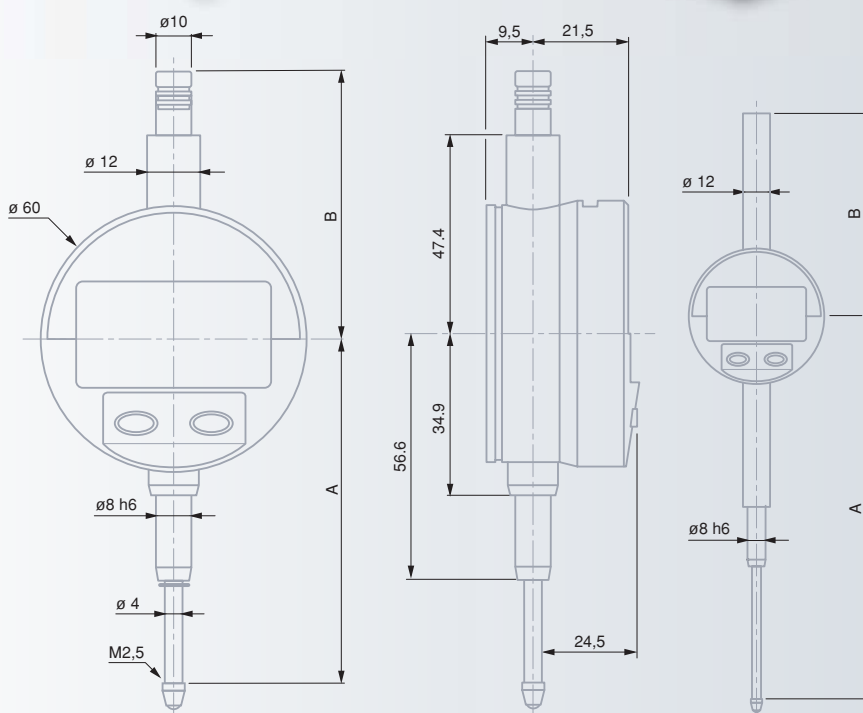
TESA DIGICO 10 and 11 as well as MIN/MAX Electronic Indicators

These three versions are made for optimum adaptation to your metrology applications.

- Zero-setting of display anywhere within the measuring span.
- Display and keyboard rotating through 270°.
- Ability to hold the measured values.
- Digit entry (PRESET function).
- Two datum points.
- Digital output.

Models TESA DIGICO 10

Provided with all the features listed above.



6-decade
LC display.
plus minus sign



8,5 mm
digit height



See tables



Metric/inch
conversion



Glass scale with
incremental divi-
sions, capacitive



Max. perm.:
1,5 m/s



Case in light
alloy. Front face
in polyamide.

Stainless steel plunger
guided on a plain bearing.
Measuring insert with a
M2,5 thread.



See tables



0,01 mm = 10 µm
0,001 mm = 2 µm



2 µm
(0,001 mm)



See table
on page E-12



RS 232,
opto-coupled



3V lithium battery,
type CR 2032



DIGICO 10
≈ 4000 h.



DIGICO 11/
MIN/MAX ≈ 2000 h



5°C to 40°C



-20°C to 60°C



EN 50081-1:1993

EN 50082-1:1993

IP51
(IEC 60529)

See tables

Supplied in a
suited carrying
case including
1 lithium battery, type
CR 2032 (No. 01961000)Identification
numberInspection report
with a declaration
of conformity

								
01930110*	12,5	0,01	10	120	69,9	64	0.5	0.0005
01930111*	25	0,01	10	130	82,4	64	1	0.0005
01930112*	50	0,01	20	210	150,5	90,5	2	0.0005
01930113*	100	0,01	20	250	250,5	140,5	4	0.0005
01930101	12,5	0,001	5	120	69,9	64	0.5	0.00005
01930100	25	0,001	5	130	82,4	64	1	0.00005
01930102	50	0,001	12	210	150,5	90,5	2	0.00005
01930103	100	0,001	15	250	250,5	140,5	4	0.00005

* Delivered without inspection report.



Models TESA DIGICO 11

With same base features as set forth plus the following functions:

- Possible entry of limit values for classification through colour LEDs: green for «Good», red for «Scrap», amber for «Rework».
- Value storage using the functions «Highest value», «Lowest value» and «Highest value minus lowest value».
- Counting sense reversal.

								
01930104	12,5	0,001	5	120	69,9	64	0.5	0.00005
01930105	25	0,001	5	130	82,4	64	1	0.00005

Models TESA DIGICO MIN/MAX

With same key features as TESA DIGICO 11, except for the PRESET function that's unavailable when used in normal mode. Provided without LEDs for value classification.

- Mainly used for registering the measured values through the function «Highest value minus lowest value».

								
01930120	12,5	0,001	5	120	69,9	64	0.5	0.00005



LCD,
5 digits + sign

6 mm
digit height

Zero-setting
of display

20 μ m

5 μ m

0,5 to 0,9 N
($\pm 0,15$ N)

Max. 2 m/s

Number of
measurements
per second: 7

Working temper-
ature range:
+5°C to +40°C

3V lithium battery,
type CR 2032

Battery life
> 3500 hours

RS 232

70 g

EN 61326-1

IP65 (IEC 529)

Shipping
packaging
incl. 1 lithium
battery, type CR 2032
(No. 01961000)

Serial number

Declaration
of conformity

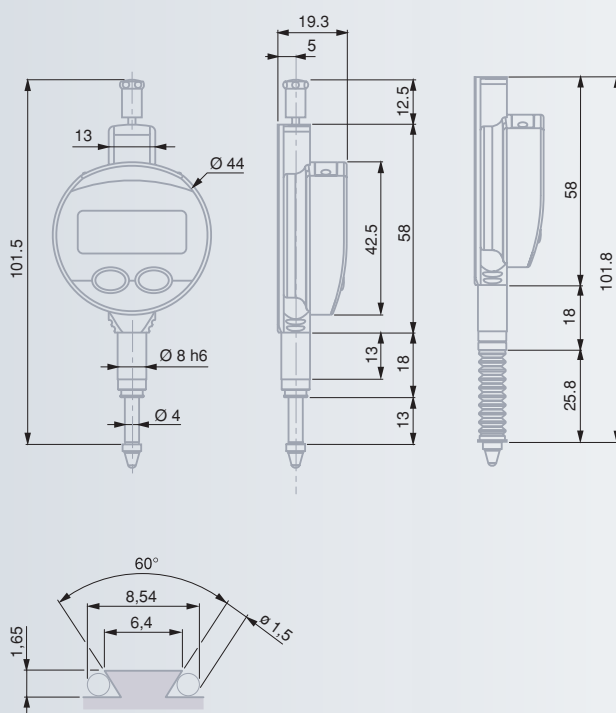
without for
models 0,01 mm
with for
models 0,001 mm

TESA DIGICO 12 Small Electronic Dial Gauges

Made to measure in extreme workshop conditions – Water and coolant resistant (IP65) – Housing with a 44 mm diameter – Let you take advantage of the mechanics combined with digital reading.

Models TESA DIGICO 12 – Standard

- 44 mm dia. dial gauge housing.
- Water and coolant resistant (IP65).
- RS 232 data output combined with external power supply.
- Inductive measuring system, patented.
- Choice between absolute («ABS») and relative («REL») modes.
- Numerical display.
- Possible setting of PRESET value to ± 200 mm.
- Switchable measuring direction.
- Direct metric/inch conversion.
- Automatic shut down.



mm/in

mm

in

Module

Models to IP65 with electronic module protected against the penetration of liquids

01930130 12,5/0.5 0,01 0.0005 IP65

01930132 12,5/0.5 0,001 / 0,01 0.00005 / 0.0005 IP65

Models to IP65 with both mechanics and electronics protected against the penetration of liquids

01930131 12,5/0.5 0,01 0.0005 IP65

01930133 12,5/0.5 0,001 / 0,01 0.00005 / 0.0005 IP65

Models TESA DIGICO 12 – HP

- High-precision measuring system.
- Water and coolant resistant (IP65).
- Combined analogue/digital display.
- Analogue readout from $\pm 0,025$ to $\pm 1,25$ mm.
- Measuring modes NOR/MIN/MAX/MAX-MIN.
- Housing with a 44 mm diameter dial.
- RS 232 data output combined with external power supply.
- Inductive measuring system, patented.
- Zero-setting of display.
- Direct metric/inch conversion.
- Auto shut down. Can also be locked.



mm/in

mm

in

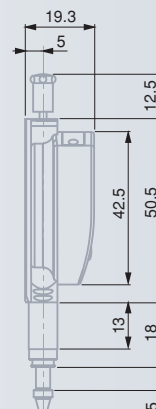
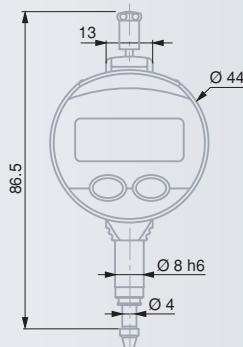
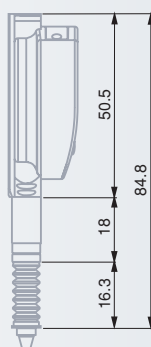
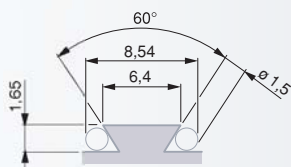
Module

Models to IP65 with electronic module protected against the penetration of liquids

01930134	5/0.210	0,001 / 0,01	0.00005 / 0.0005	IP65
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Model to IP65 with both mechanics and electronics protected against the penetration of liquids

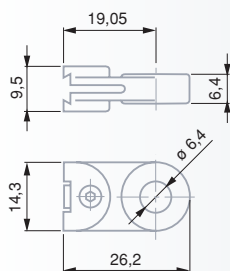
01930135	5/0.210	0,001 / 0,01	0.00005 / 0.0005	IP65
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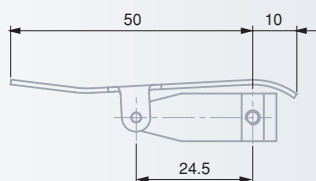
Accessories



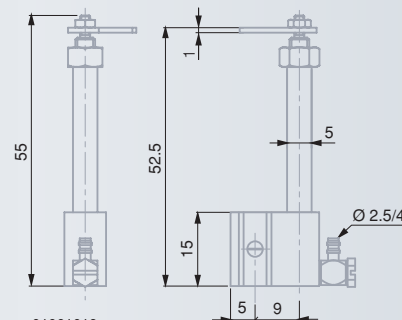
- | | |
|----------|--|
| 03238013 | Back with lug |
| 01961012 | Upper lift lever |
| 01960005 | Lower lift lever |
| 01961013 | Pneumatic retraction device |
| 04761060 | RS 232 connecting cable with external power supply |
| 01961000 | 3 V lithium battery, type CR 2032, 190 mAh |



03238013



01961012



01961013



LCD,
5 digits + sign



6 mm
digit height



Zero-setting
of display



4 μm



2 μm



0.4 to 0.75 N
($\pm 0,15$ N)



Max. 2 m/s



Number of
measurements
per second: 9



Working temper-
ature range:
+5°C to +40°C



3V lithium
battery,
type CR 2032



Battery life
> 4000 hours



RS 232



70 g



EN 61326-1



IP65 (IEC 529)



Shipping
packaging
including
1 lithium battery, type
CR 2032 (No. 01961000)



Serial number



Inspection report
with a declaration
of conformity

Measuring force



mm



Lower limit value

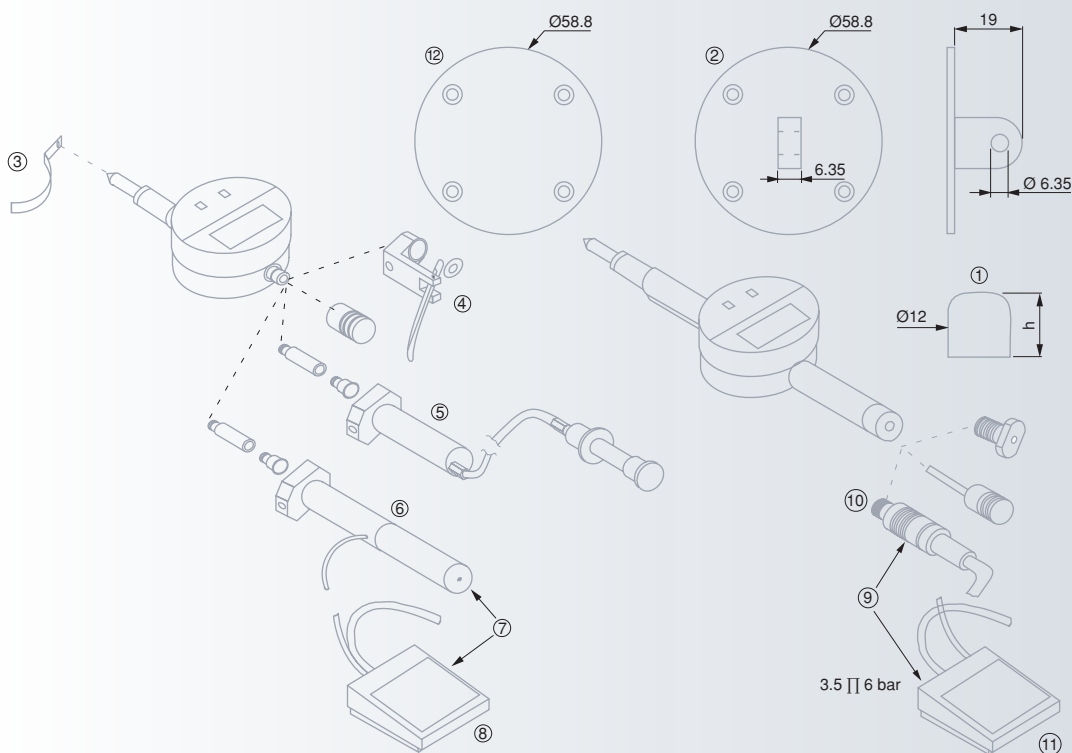


Upper limit value

12,5	0,7 N	0,95 N
25	0,6 N	1,1 N
50	2,5 N	4,0 N
100	2,5 N	4,0 N

With the indicator used vertically and downward oriented plunger, or in static measurement.

Accessories for TESA DIGICO 10 and 11 as well as MIN/MAX



N°			
01961000		Lithium battery, type CR 2032, 3 V, 190 mAh	Suited for all models
01961009	①	Top mounted dust cap	12,5 mm
01961010			25 mm
01961003	②	Back with lug	all models
01960005	③	Plunger retracting lever, at the bottom	all models
01961005	④	Plunger retracting lever, at the top	2,5 mm/25 mm
01961011	⑤	Plunger retracting cable, at the top	2,5 mm/25 mm
01961006	⑥	Pneumatic device for plunger retraction, alone without foot switch	12,5 mm/25 mm
01961008	⑦	Foot switch with pressure regulator for N° 01961006	12,5 mm/25 mm
01961007	⑧	Pneumatic device for plunger retraction, complete with foot switch and pressure regulator	12,5 mm/25 mm
S19001431	⑨	Vacuum lifting device	50 mm/100 mm
S19001448	⑩	Pressure regulator for N° S19001431	
S19001447	⑪	Foot switch for N° S19001431	
01961002	⑫	Flat back	all models

For ordering information on connecting cable etc., see section N.