



## 0.001mm Dial Indicators

- Standard type dial indicators of graduation 0.001mm and bezel diameter 56mm.
- Durability is pursued by protecting mechanical parts like gears with shock absorbing mechanism (Teclock unique shock proof mechanism).
- Jeweled bearing is applied for improving durability.
- Stable repeatability accuracy is realized with lever enlargement mechanism built-in.
- Tolerance hand is provided as standard accessory for all models for positive tolerance setting.
- Lifting lever (Option) can be mounted . (Refer to page 25)
- Bezel clamp (Option) can be mounted (except for TM-1201PW).
- Measuring ability can be changed .
- In case that flat back is required, add suffix "f" to the end of model number (example =TM-1201f).



**TM-1201**  
Popular type  
Graduation 0.001mm  
Measuring Range 1mm



**TM-1201PW**  
Oil-proof type  
Graduation 0.001mm  
Measuring Range 1mm



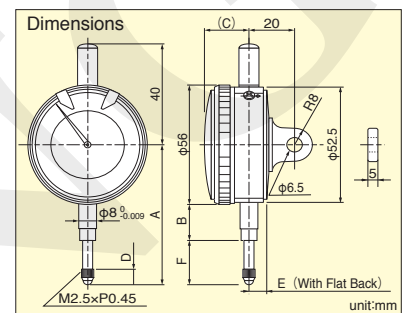
**TM-1251**  
Wide graduation width type  
Graduation 0.001mm  
Measuring Range 1mm  
One Revolution 0.1mm



**TM-1202**  
Type suitable to Boregauge  
Graduation 0.001mm  
Measuring Range 2mm



**TM-1205**  
5mm stroke type  
Graduation 0.001mm  
Measuring Range 5mm



Dimensions Table

Model	A	B	C	D	E	F
TM-1201	62	18	15	7.5	8	16
TM-1201PW	65.5 (18)	13.5	11	8.5 (19.5)		
TM-1251	62	18	15	7.5	8	16
TM-1202	62	19	15	7.5	8	16
TM-1205	62	19	15.5	7.5	8	16

unit:mm

### Specifications

Model	Graduation (mm)	Measuring Range (Free Stroke) (mm)	Repeatability (μm)	Indication Error (μm)					Hysteresis (μm)	Standard Contact Point	Measuring Force (N)	Weight (g)
				Adjacent Error	1/2 Revolution	1 Revolution	2 Revolution	Total Range				
TM-1201	0.001	1 (3)	0.5	2.5	±3	±4	±4	±5	3	ZS-017	1.5 or less	170
TM-1201PW	0.001	1 (3)	0.5	2.5	±3	±4	±4	±5	3	ZS-028	1.5 or less	180
TM-1251	0.001	1 (3)	0.8	2.5	±3	±4	±4	±5	3	ZS-017	1.5 or less	170
TM-1202	0.001	2 (2)	0.5	4	±5	±6	±6	±7	3	ZS-017	1.5 or less	170
TM-1205	0.001	5 (-)	1	5	±6	±7	±8	±10	4	ZS-017	1.5 or less	170

\*In case flat back is required, please add suffix "f" to the end of model number. (example=TM-1201f)

## 0.01mm Dial Indicators

- This is the most standard type dial indicator of graduation 0.01mm
- The model can be selected out of stainless stem, coaxial revolution pointer, oil discharge function and analog function depending on usage.
- These are standard series with high durability and high accuracy by pursuing parts accuracy.

- Lifting lever (Option) can be mounted (Refer to page 25).
- Bezel clamp (Option) can be mounted (except for TM-110PW / TM-110G ).
- Measuring ability can be changed .
- In case that flat back is required, add suffix "f" to the end of model number (example =TM-110f).



**TM-110**  
Standard type  
Graduation 0.01mm  
Measuring Range 10mm



**TM-110R**  
Reversed dial type  
Graduation 0.01mm  
Measuring Range 10mm



**TM-110D**  
Coaxial revolution pointers type  
Graduation 0.01mm  
Measuring Range 10mm



**TM-110-4A**  
With oil ejection  
holed bezel type

Graduation 0.01mm  
Measuring Range 10mm



**TM-110PW**  
Oil-Proof type

Graduation 0.01mm  
Measuring Range 10mm



Discontinued  
Production

**TM-110G**  
With stop hand

Graduation 0.01mm  
Measuring Range 10mm



**TM-110P**  
Direct reading  
graduation type

Graduation 0.01mm  
Measuring Range 10mm



**TM-105**  
Type suitable to  
Boregauge

Graduation 0.01mm  
Measuring Range 5mm



**TM-105W**  
Reversed type

Graduation 0.01mm  
Measuring Range 5mm



**TM-5106**  
Wide scale width type

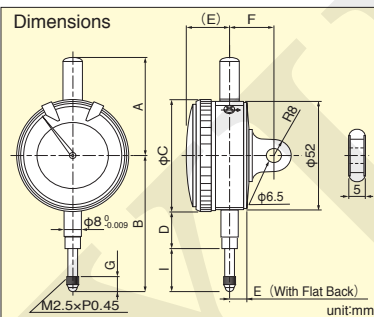
Graduation 0.01mm  
Measuring Range 5mm

## 0.005mm Dial Indicators



**TM-5105**

Graduation 0.005mm  
Measuring Range 5mm



Dimension Table

Model	A	B	C	D	E	F	G	H	I
TM-110	48	65	55	18	15.5	20	7.5	7.8	19.5
TM-110R	48	65	55	18	15.5	20	7.5	7.8	19.5
TM-110D	48	65	55	18	17.6	20	7.5	7.8	19.5
TM-110-4A	48	65	55	18	15.5	20	7.5	7.8	19.5
TM-110PW	44.5	68.5	56	(17.5)	14.5	20	11	8.3	23.0
TM-110G	48	65	55	18	17.3	20	7.5	7.8	19.5
TM-110P	48	65	55	18	15.5	20	7.5	7.8	19.5
* TM-105	48	65	55	18	15.5	*	7.5	7.8	19.5
TM-105W	48	65	55	18	15.5	20	7.5	7.8	19.5
TM-5106	48	65	55	19	15.5	20	7.5	7.8	19.5
TM-5105	48	65	55	19	15.5	20	7.5	7.8	19.5

\*Indicator is supplied with Flat back.

unit:mm

## Specifications

Model	Graduation (mm)	Measuring Range (mm)	Repeatability (μm)	Indication Error (μm)					Hysteresis (μm)	Standard Contact Point	Measuring Force(N)	Weight (g)
				Adjacent Error	1/2 Revolution	1 Revolution	2 Revolution	Total Range				
TM-110	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	1.4 or less	165
TM-110R	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	1.4 or less	165
TM-110D	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	1.4 or less	165
TM-110-4A	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	1.4 or less	165
TM-110PW	0.01	10	5	8	±9	±10	±15	±15	5	ZS-028	1.4 or less	165
TM-110G	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	2.0 or less	165
TM-110P	0.01	10	5	8	±9	±10	±15	±15	5	ZS-017	1.4 or less	145
TM-105	0.01	5	5	8	±9	±10	±12	±12	5	ZS-017	1.4 or less	145
TM-105W	0.01	5	5	8	±9	±10	±12	±12	5	ZS-017	1.4 or less	145
TM-5106	0.01	5	3	7	±8	±9	±10	±12	5	ZS-017	1.4 or less	145
TM-5105	0.005	5	3	7	±8	±9	±10	±12	5	ZS-017	1.4 or less	145

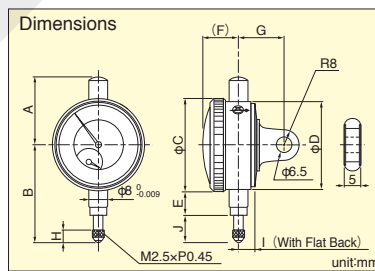
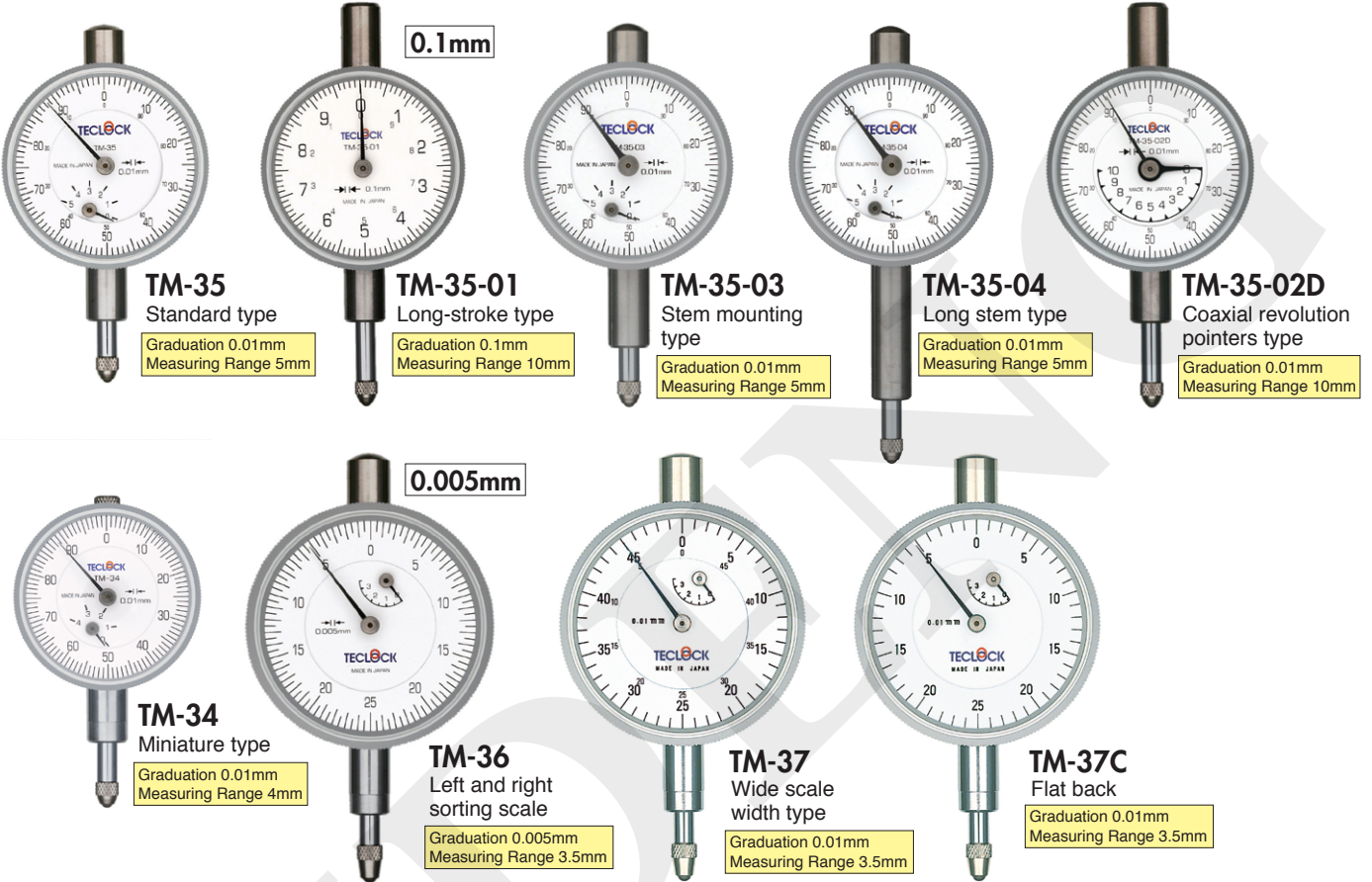
\*In case flat back is required, please add suffix "F" to the end of model number. (example=TM-1201F)



# Small Dial Indicators

- As bezel diameter is small (minimum diameter=36mm), these are suitable to measure at the narrow setting space of production lines and many measuring points by being mounted to the machine.
- Lifting lever (Option) can be mounted (except for TM-34).
- In case that flat back is required, add suffix "F" to the end of model number (example =TM-35f).

- Measuring range 3.5mm, 4mm, 5mm, and 10mm are available in spite of small size.
- Bezel clamp (Option) can be mounted.
- Measuring ability can be changed. (Refer to page 23)



Dimensions Table

Model	A	B	C	D	E	F	G	H	I	J
TM-35	27.4	41.3	39	36.5	10	14.5	19	5	6.2	11.8
TM-35-01	32.5	46	39	36.5	10	14.5	19	5	6.2	16.5
TM-35-03	27.4	46	39	36.5	15	14.5	19	5	6.2	11.5
TM-35-04	27.4	58	39	36.5	26	14.5	19	5	6.2	12.5
TM-35-02D	32.5	46	39	36.5	10	16.5	19	5	6.2	16.5
TM-34	20	39.5	35	32	10	13	19	5	6.5	12
TM-36	33.5	50	47	44	13	15.5	19.7	7.5	7	13.5
TM-37	33.5	50	47	44	13	15.5	19.7	7.5	7	13.5
TM-37C	33.5	50	47	44	13	15.5	19.7	7.5	7	13.5

\*Indicator is supplied with Flat back.

unit:mm

Specifications

Model	Graduation (mm)	Measuring Range (mm)	Repeatability (μm)	Indication Error (μm)			Hysteresis (μm)	Standard Contact Point	Measuring Force (N)	Weight (g)
				Adjacent Error	1 Revolution	Total Range				
TM-35	0.01	5	5	9	±13	±15	6	ZS-014	1.3 or less	70
TM-35-01	0.1	10	-	-	-	±50	-	ZS-014	1.5 or less	70
TM-35-03	0.01	5	5	9	±13	±15	6	ZS-014	1.3 or less	72
TM-35-04	0.01	5	5	9	±13	±15	6	ZS-014	1.3 or less	75
TM-35-02D	0.01	10	5	9	±13	±18	7	ZS-014	1.6 or less	75
TM-34	0.01	4	5	8	±11	±15	6	ZS-014	1.0 or less	60
TM-36	0.005	3.5	5	8	±10	±12	5	ZS-017	1.2 or less	115
TM-37	0.01	3.5	5	8	±10	±12	6	ZS-017	1.2 or less	115
TM-37C	0.01	3.5	5	8	±10	±12	6	ZS-017	1.2 or less	115

\*In case flat back is required, please add suffix "F" to the end of model number. (example=TM-1201f)



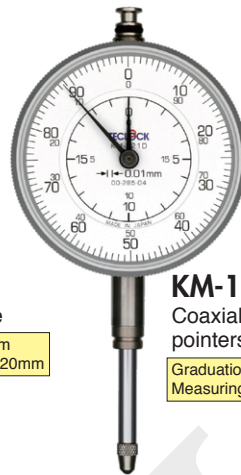


# 0.01mm Long Stroke Dial Indicators

- 20mm, 30mm long stroke dial indicators are available.
- Teclock unique shock proof mechanism is built-in to all models.
- Lifting lever (Option) can be mounted (except for KM-121PW).
- Bezel clamp (Option) can be mounted (except for KM-121PW).
- In case that flat back is required, add suffix "f" to the end of model number (example =KM-121f).



**KM-121**  
Standard type  
Graduation 0.01mm  
Measuring Range 20mm



**KM-121D**  
Coaxial revolution pointers type  
Graduation 0.01mm  
Measuring Range 20mm

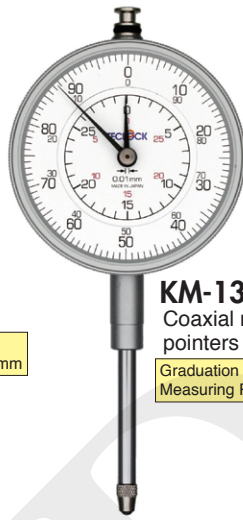


**KM-121PW**  
Oil-proof type  
Graduation 0.01mm  
Measuring Range 20mm

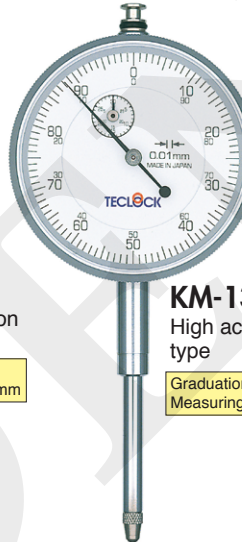
## Measuring Range 30mm



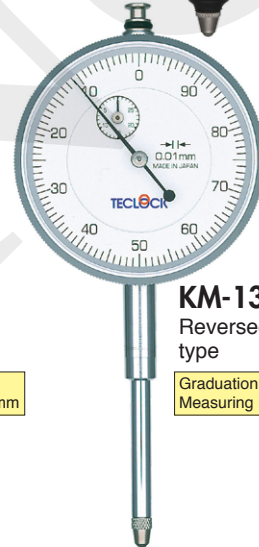
**KM-131**  
Standard type  
Graduation 0.01mm  
Measuring Range 30mm



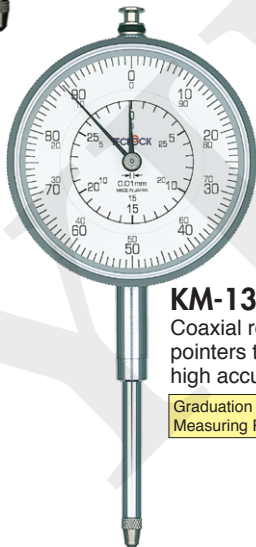
**KM-132D**  
Coaxial revolution pointers type  
Graduation 0.01mm  
Measuring Range 30mm



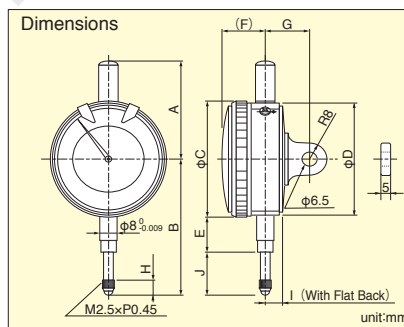
**KM-130**  
High accurate type  
Graduation 0.01mm  
Measuring Range 30mm



**KM-130R**  
Reversed dial type  
Graduation 0.01mm  
Measuring Range 30mm



**KM-130D**  
Coaxial revolution pointers type in the high accuracy  
Graduation 0.01mm  
Measuring Range 30mm



Dimensions Table

Model	A	B	C	D	E	F	G	H	I	J
KM-121	36	75	55	52	18	15.5	20	7.5	7.8	29.5
KM-121D	36	75	55	52	18	17.6	20	7.5	7.8	29.5
KM-121PW	55	89	56	52	(17.5)	14.5	20	11	8.3	(43.5)
KM-131	36	86	55	52	19	15.5	20	7.5	8	39.5
KM-132D	36	86	55	52	19	17.3	20	7.5	8	39.5
KM-130	38.5	92	59	54.5	22.7	17.5	22	7.5	9.6	39.8
KM-130R	38.5	92	59	54.5	22.7	17.5	22	7.5	9.6	39.8
KM-130D	38.5	92	59	54.5	22.7	19.5	22	7.5	9.6	39.8

## Specifications

Model	Graduation (mm)	Measuring Range (mm)	Repeatability (μm)	Indication Error (μm)			Hysteresis (μm)	Standard Contact Point	Measuring Force (N)	Weight (g)
				Adjacent Error	1 Revolution	Total Range				
KM-121	0.01	20	5	10	±15	±20	7	ZS-017	2.2 or less	145
KM-121D	0.01	20	5	10	±15	±20	7	ZS-017	2.2 or less	150
KM-121PW	0.01	20	5	10	±15	±20	7	ZS-028	2.2 or less	165
KM-131	0.01	30	5	14	±18	±35	8	ZS-017	2.5 or less	150
KM-132D	0.01	30	5	14	±18	±35	8	ZS-017	2.5 or less	150
KM-130	0.01	30	5	14	±18	±25	7	ZS-017	2.2 or less	200
KM-130R	0.01	30	5	14	±18	±25	7	ZS-017	2.2 or less	200
KM-130D	0.01	30	5	14	±18	±25	7	ZS-017	2.2 or less	200

\*In case flat back is required, please add suffix "f" to the end of model number.



# Long Stroke Dial Indicators

- 50mm, 100mm, 150mm long stroke dial indicators with a large graduation plates are available.
- Measuring up to 150mm is materialized with highest precision components of high durability and Teclock original and unique enlargement mechanism is built-in.

- Bezel clamp (Option) can be mounted (except for KM-05100 /KM-05150).
- Long stroke dial Indicator is widely used for construction, civil engineering industries etc.
- In case that flat back is required, add suffix "f" to the end of model number (example =KM-155f ) (except for KM-05100 /KM-05150).



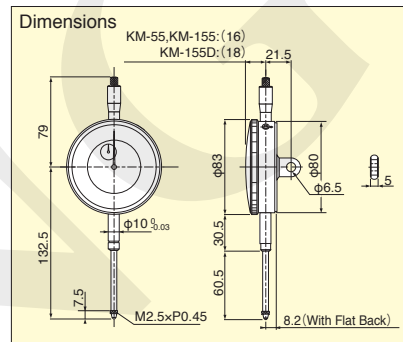
**KM-55**  
Durability emphasis type  
Graduation 0.05mm  
Measuring Range 50mm



**KM-155**  
Wide graduation width type  
Graduation 0.01mm  
Measuring Range 50mm



**KM-155D**  
Coaxial revolution pointers type  
Graduation 0.01mm  
Measuring Range 50mm



Specifications

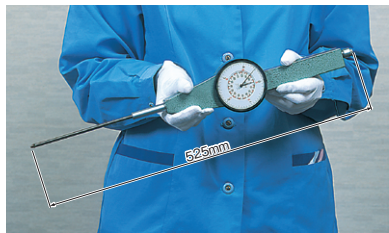
Model	Graduation (mm)	Measuring Range (mm)	Repeatability (μm)	Indication Error (μm)			Hysteresis (μm)	Standard Contact Point	Measuring Force (N)	Weight (g)
				Adjacent Error	1 Revolution	Total Range				
KM-55	0.05	50	20	30	±50	±100	15	ZS-017	2.5 or less	285
KM-155	0.01	50	5	15	±20	±35	9	ZS-017	2.5 or less	285
KM-155D	0.01	50	5	15	±20	±35	9	ZS-017	2.5 or less	285

\*In case flat back is required, please add suffix "f" to the end of model number.

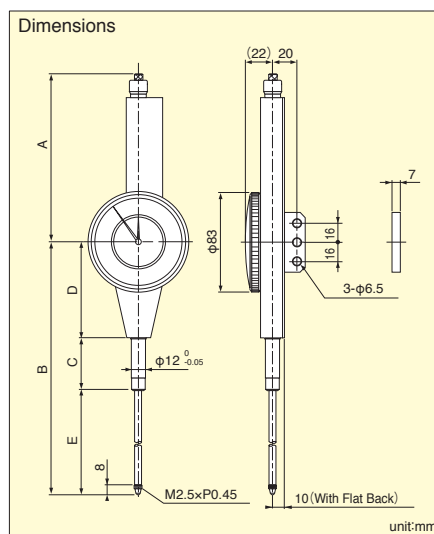


**KM-05100**  
Coaxial revolution pointers type  
Graduation 0.05mm  
Measuring Range 100mm

**KM-05150**  
Coaxial revolution pointers type  
Graduation 0.05mm  
Measuring Range 150mm



The longest mechanical type model: KM-05150



Dimensions Table

Model	A	B	C	D	E
KM-05100	140	235	44	80	111
KM-05150	190	335	55	120	160

unit:mm

Specifications

Model	Graduation (mm)	Measuring Range (mm)	Repeatability (μm)	Total Range Indication Error (μm)	Hysteresis (μm)	Standard Contact Point	Measuring Force (N)	Weight (g)
KM-05100	0.05	100	30	±100	15	ZS-018	2.5 or less	550
KM-05150	0.05	150	30	±150	15	ZS-018	3.0 or less	680