OXFORD
PRECISION

Digital Indicators

OXD-331 SERIES OPERATOR'S MANUAL

Features

- Inch/Metric measurement
- Absolute Measuring/Relative reading
- Zero Setting
- +/- Display
- Auto/Manual Power off
- Preset a Value
- Measure run out of a high speed work piece

Safety

1. Avoid shocks, impact, dropping etc. This will effect the precision & accuracy as well as appearance.
2. Do not remove output connector lid unless using output interface.
3. Output end should never be in contact with metal. Doing so could damage your indicator.
4. Do not allow any part of the digital indicator to come into contact with electrical voltage, as this will damage the circuitry.

Specifications

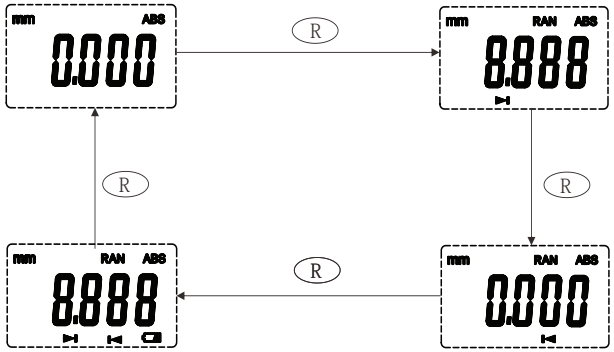
0-12.7MM/0.5" DIGITAL INDICATOR 0.01MM/0.0005"	
ORDER CODE:	OXD3316030K
MEASURING RANGE	0-12.7mm/0.5"
READING	0.01mm/0.0005"
LCD DISPLAY	7.5mm
RESPONSE SPEED	0.5m/s.
STORAGE TEMPERATURE	-10~60 DEGREE CENTIGRADE

0-12.7MM/0.5" M/F INDICATOR 0.001MM/0.00005"	
ORDER CODE:	OXD3316040K
MEASURING RANGE	0.12.7mm/0.5"
READING	0.001mm/0.00005"
LCD DISPLAY	7.5mm
RESPONSE SPEED	0.5m/s.
STORAGE TEMPERATURE	-10~60 DEGREE CENTIGRADE

Functions *continued*

7) Measure run-out of a high speed workpiece

The indicator may record max. and min. value automatically. Press C key for a short duration then the memory can be erased, the LCD will display -CCC-, and will record again. Press R key for a short duration to check the run-out. When RAN and ▶I are displayed the value shown on LCD is the max. runout. Press R key for a short duration again. I◀ will be displayed and the value on LCD is the min. runout. Now press R key again. ▶I◀ will be displayed. Now both max. and min. will be displayed. Press R key for a short duration once more, the indicator will resume to normal measuring mode (display).



Attention: You may stay with one mode only, say min. runout or max. runout or max. & min. runout. C key can be pressed in any mode to erase the memory.

8) Manual/Auto Power Off

When the indicator is powered off, press and hold the ABS key and press Z/On key, the indicator will get into Manual/Auto Power off Setting mode. "H" means Hand (manual) power off. The indicator is powered off when Z/on button is pressed for a long duration. "A" represents Auto power off. If testing rod stays still and no key is pressed for 4 hours, the indicator will be powered off automatically. Short press Z/On key to save the setting and quit Manual/Auto Power off Setting mode.

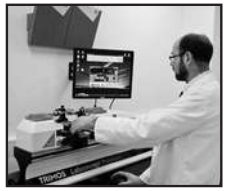
Maintenance

1. Clean the indicator housing, the stem and the testing rod with soft oil-free cloth. If it's very dirty, put some neutral cleaner on the cloth.
2. The hole that holds the indicator stem should be 8H6.
3. Clean the indicator after using.
4. The indicator should be taken apart by professionals only in case of serious damage.
5. Replace the battery when LCD turns dim, the figures are not clear or the indicator cannot be turned on.

Service & repair

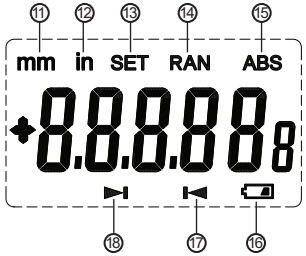
A comprehensive repair and service facility is available through your local KENNEDY TOOLS agent.





Identification





1	Anvil	7	Run Key	13	Display Preset
2	Stem	8	In/mm key	14	Display Graduation
3	Battery compartment	9	ABS/PRESET key	15	Display ABS mode
4	Rear cover	10	Z/ON key	16	Display Low voltage
5	LCD	11	Display Metric	17	Display Max. Value
6	Clear key	12	Display Inch	18	Display Min. Value

Functions

1. On/Off

a) Fit a new battery into the battery compartment

b) Press Z/ON key for a short duration, the indicator will be switched on

c) Press and hold Z/ON key, the indicator will be switched off.

2. Zero setting

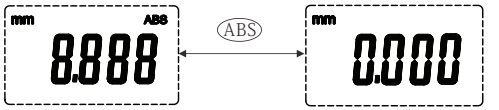
a) In ABS Mode (ABS is shown on the screen), press Z/ON for a short duration, the screen will show “0” or you may say zero point is set there.

b) When the indicator is turned from ABS mode to Relative mode, the screen will show zero and you may achieve relative measuring.

c) When the indicator is in “REL” mode, zero cannot be reset.

3. Inch/metric

Inch/metric switching can be achieved by pressing in/mm key for a short duration.
If mm is displayed, the value is in metric. If inch is displayed, the value is in inch.

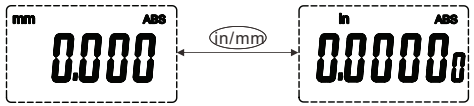


Absolute Measuring Relative Measuring

Functions *continued*

4) Changing between Absolute Measuring and Relative Measuring

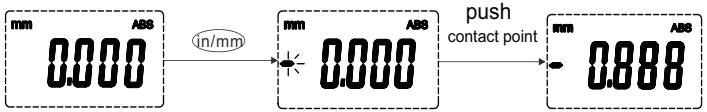
This change can be achieved by pressing ABS key for a short duration. When ABS is displayed the absolute value is on the screen. Press ABS key for a short duration, then ABS will disappear on the screen and the status will be changed to Relative measuring and the value on the screen will be “Zero”. Then you may test the workpiece and read the deviation from “Zero” directly. Press the ABS key again, the status will be changed to Absolute Reading again and ABS will reappear.



Metric Inch

5) Change +/-

Press in/mm key until “-” code blinks. When “-” stops blinking and disappears, push the contact point, the value will be minus.



Press in/mm key until “+” code blinks. When “+” stops blinking and disappears, push the contact point, the value will be plus.

6) Preset a value

When the indicator is in “ABS” and “metric” mode, press and hold for 2 seconds ABS key to get into “Presetting a value” mode. The number that is blinking is the one that can be changed. Press in/mm for a short duration, then the number changes from 0 to 9. Press Z/ON key for a short duration then the blinking number will move one position left. In this way all the numbers and +/- can be set. When the value is correctly set, press ABS key for a long duration to save the preset value and quit “Presetting a value” mode. Now the indicator will get into ABS mode. Please note that now the real absolute Zero point is with the value presetted. If Z/ON key is pressed and held the presetted value will be erased and the absolute Zero will be displayed as “0” and the indicator will quit “Presetting a value” mode. Please note that the presetted value cannot be higher than 99.

