Outline

Angular deviation from a determined ratio between the input and output revolution of a gear train is detected and processed with the finest resolution of 1 sec. of arc.
A set of two gears are to be measured with this machine.
Examples·····.

- *Worm / Worm Wheel*
- *Spur and / or Helical Gear*
- *Bevel Gears*
- *Face Gear and Pinion*
- *Internal Gear and Pinion···.etc.*

Measuring Equipment for Angular Transfer Accuracy of gear train Model MEATA-3

Specifications

Measuring range	*: 30", 1', 3', 10', 30' (of arc)*
Resolution / finest	*: 1' (1 sec. of arc)*
Gear ratio	*: 1/1 ~ 1/150 (z1/z2 or z2/z1)*
Gear outside diameter max. (mm)	*:*
ϕ65 / drive ϕ160 / driven	
Rev. speed max.	*: 60 rpm (both spindles)*
SettingCapacity(max.)	*: X =*
±75mm (±2.95") Y = 65mm (2.56")	*Z = 90mm (3.54")*

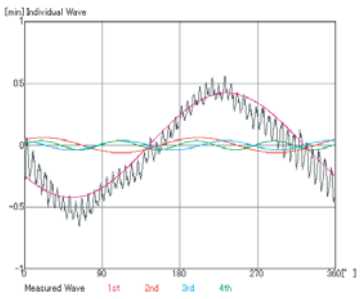
θ = 0 ~ 30° R.H. / 0 ~ 20° L.H. (with center support)

Output

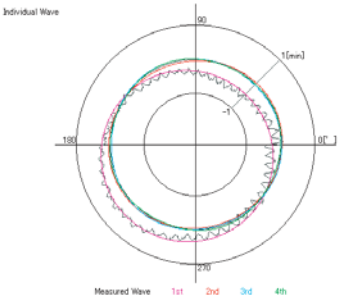
Data is stored, analyzed and displayed as explained below.
- Display / printout.: Phase Angle vs. Error
Rectangular (X-Y diagram)
Polar (R-θ diagram)

*- Fourier Series Analysis**
Stored data can be analyzed further with Fourier Analysis software including backlash characteristics.

**marked are optional*



X-Y diagram



R-θ diagram

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