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Wyler Classic Leveltronics



Swiss Quality!



Horizontal model
#54-820-000 (on left)
and Angular model
#54-820-150.

Special Features:

- Measuring principle based on pendulum characteristics. A disc of mass, suspended on leaf springs, fitted between electrodes emits a signal of capacity change between disc and electrode as a deviation. (It supplies information of deviation by changing capacity between disc and electrode).
- Measuring results of Leveltronic can be displayed on Levelmeter which can be used with 1 or 2 Leveltronics (to show difference between levels) and can provide output to recorders, plotters, computers,
- Values of change amplified electronically, rectified and transferred to indicator. Disc of mass and electrode form hermetically sealed differential condenser. Hence, suppression can take place by air for fast measurements.
- Measuring element tolerates less accurate manipulation since all parts work free from friction and no abrasion possible. Exces-

sive shocks will only displace zero setting.

- **Magnets can be supplied for bases at a slight additional cost.**

Specifications:

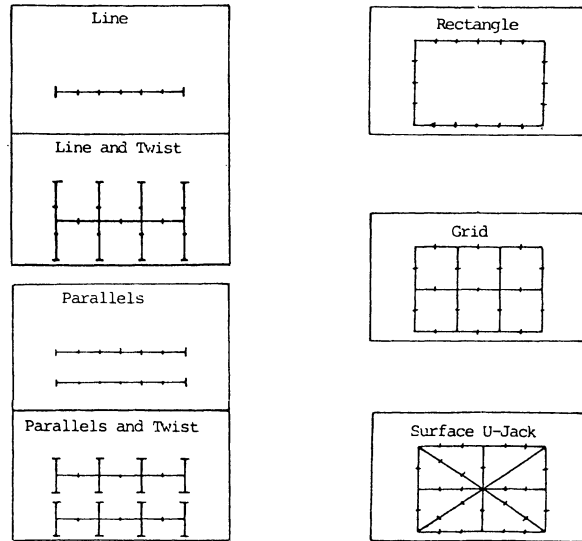
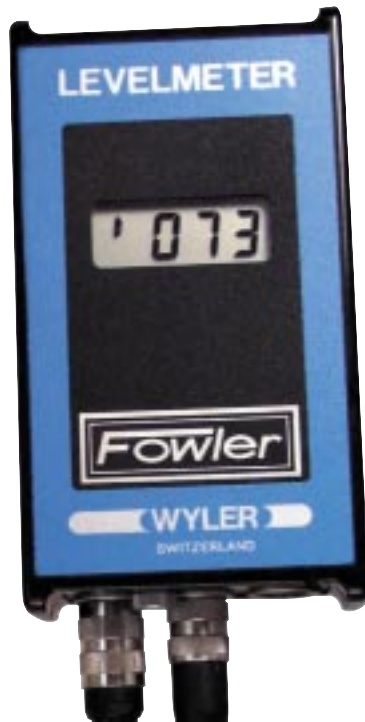
- Measuring range: ± 1999 sensitivity units (± 6.66 minutes, $.02"/10"$, $.2\text{mm/m}$).
- Sensitivity: $.2$ sec. ($.00001"/10"$, $.001\text{mm/m}$).
- Reading taken about 3 sec. after set-up.
- High repeatability: 1 digit ($.2$ seconds).
- Easy zero setting: Range of ± 400 digits, ± 80 seconds ($\pm .004"/10"$, $\pm .4\text{mm/m}$).
- Current supply: from Levelmeter.
- Output: analog output from Levelmeter.
- High accuracy: typically 1% linearity and $\pm 5\%$ tolerance of sensitivity.
- Weight: #54-820-000 & 100 are $3\frac{1}{4}$ lbs; #54-820-150 is 6 lbs.
- **Other styles, sizes, magnets, bases, sensitivities & ranges available. Price quoted upon request.**



| Order No. | Description |
|------------|--|
| 54-820-000 | 6" Horizontal w/V-groove base (diameters of 1.2" to 4.2"). |
| 54-820-100 | 6" Horizontal w/flat base (can use interchangeable bases). |
| 54-820-150 | 6" Angular w/V-groove base (diameters of 1.2" to 4.2"). |
| 54-820-111 | Set of 5 interchangeable bases (54-820-001 to 005). Use w/54-820-100 only. |
| 54-820-001 | 2" (50mm) step length screw-on base for 54-820-100 only. |
| 54-820-002 | 3" (75mm) step length screw-on base for 54-820-100 only. |
| 54-820-003 | 4" (100mm) step length screw-on base for 54-820-100 only. |
| 54-820-004 | 5" (125mm) step length screw-on base for 54-820-100 only. |
| 54-820-005 | 6" (150mm) step length screw-on base for 54-820-100 only. |
| 54-820-012 | 6" (150mm) screw-on granite base for 54-820-100 only. |
| 54-820-013 | 10" (250mm) screw-on granite base for 54-820-100 only. |

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Wyer Levelmeter & Interfaces with Software



Levelmeter #54-820-200:

- The Levelmeter is an indicator and feeding apparatus used with Wyler Digital Levelronics, horizontal types #54-820-000 & 100 and angular type #54-820-150.
- A & -B inputs for differential measurement.
- Analog output and large digital display.
- Used in leveling and setting large machine tools; calibrating granite/metal surface plates.
- Uses 4 AA 1.5V batteries.
- Range: ± 1999 digit.
- Sensitivity: 1 digit = .2 sec. = $.00001''/10''$ = $.001\text{mm/m}$.
- Zero range: ± 400 digits.
- Analog output: 1mV/digit.
- Levelronics determine range & sensitivity.
- Connecting cable is 100" (2.5m) long. (Not included with Levelmeter).
- Supplied in fitted case.

Computer Interfaces with software. Programs include:

1. Line: straightness of ways, beds, etc.
2. Line with twist: straightness and twist of ways, beds, etc.
3. Parallels: straightness and parallelism of ways, beds, etc.
4. Parallels with twist; straightness, twist and parallelism of ways, beds, etc.
5. Rectangle: flatness of tables, surfaces, beds, etc.
6. Grid: flatness of surface plates.
7. Union Jack: flatness of surface plates.

Special Features:

- Differential measurement eliminates errors caused by vibration.
- Calculation of average of 16 inputs per measurement.
- Resolution to $.000001''$.
- Capacity of up to 99 measuring points for lines; 1000 measuring points for surfaces.
- Graphic results can be printed for permanent record.



| Order No. | Description |
|------------|--|
| 54-820-200 | Levelmeter (cable is not included). |
| 54-820-250 | Cable connects Leveltronic to Levelmeter (required). |
| 54-820-778 | IBM External Interface/Software Kit. Requires IBMXT/AT or compatible, 512K, parallel printer port, 3 1/2" floppy drive, graphics printer. DOS and Windows versions included. for Wyler Classic Levels. |
| 54-820-779 | IBM External Interface/Software Kit. Requires IBMXT/AT or compatible, 512K, parallel printer port, 3 1/2" floppy drive, graphics printer. DOS and Windows versions included. for NT Levels. |
| 54-820-999 | Interface w/software for Apple II series. Requires color monitor, printer. |