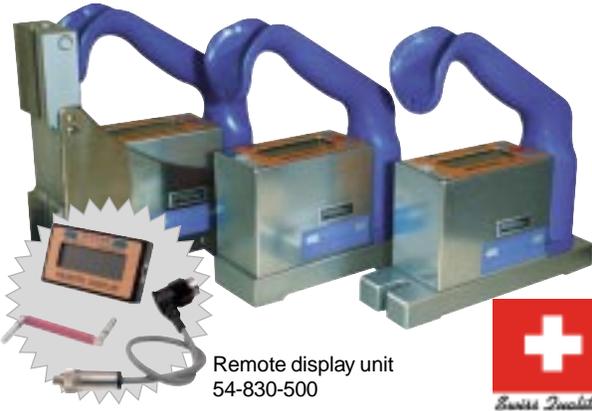


# Fowler

## Minilevel NT Series Precision Inclinometers for small angles



Remote display unit  
54-830-500

The Minilevel NT series from Wyler was recently introduced by Fowler. The newly developed instrument, unsurpassed in precision and reliability, is the tool of choice for measuring small angles, flatness of surface plates & geometrical errors

- Large LED digital display.
  - Switchable Hi/Lo sensitivity.
  - Precise push-button zero point adjustment.
  - Rugged precision aluminum housing for protection against external influences.
  - All standard measuring bases are available.
  - State of the art digital technology combined with modern electronic components allow signal output in digital or analog form.
  - Connection to #54-845-000 Levelmeter 2000 is possible for remote display.
  - Power supply with "AA" 1.5 V batteries.
  - Fulfills strict European CE requirements (immunity against electromagnetic smog).
  - Works with #54-820-779 Flatness/Geometry Kit.
  - Other styles, sizes, sensitivities and magnetic inserts are available for most units.
- Call Fowler's Technical Staff for price and availability.

| Specifications                         |                                |  |                        |                          |                     |
|--|--------------------------------|--|------------------------|--------------------------|---------------------|
| Instrument                             | Minilevel NT (Arc.Sec.)        | 2/0.2 arc.sec.—instrument  |                        | 10/1 arc.sec.—instrument |                     |
| Range choice                           |                                | Range I  | Range II               | Range I                  | Range II            |
| Inclination range                      |                                | ±4000 sec.   | ±400 sec.              | ±19990 sec.              | ±2000 sec.          |
| Sensitivity                            | * Standard                     | 10 µm/m<br>2 arc.sec.  | 1 µm/m<br>0.2 arc.sec. | 50 µm/m<br>10 arc.sec.   | 5µm/m<br>1 arc.sec. |
| Data output connection                 | Analog output=:                | 1mV/Sensitivity Unit   |                        |                          |                     |
| Data output connection                 | Digital output=:               | RS485, asynchr., 7 Bit, 2 Stopbits, no parity, 9600 Baud   |                        |                          |                     |
| Setting time                           | Value available after          | <3 sec.  |                        |                          |                     |
| Limits of error (DIN 2276)             | Up to 0.5 fullscale            | max. 1% of measured value  |                        |                          |                     |
| Limits of error (DIN 2276)             | From 0.5 to fullscale          | max. 1% of (2*measured value—0.5*F.S.)   |                        |                          |                     |
| Temperature error /°C                  | Between 16 & 25°C<br>(61—77°F) | <0.1% F.S.   |                        | <0.05% F.S.              |                     |
| Power supply with batteries (Lifetime) | Batteries<br>Option            | 1 x Size AA 1.5V Alkaline (100—140 hrs.)<br>1 x Size AA 3.0 V MnO <sub>2</sub> —Lithium (200 hrs.) |                        |                          |                     |
| External power supply                  |                                | +5V DC, 20mW   |                        |                          |                     |
| Temperature range                      |                                | Operating 0° to 40°C. Storage -20° to 70°C.  |                        |                          |                     |

### Order Numbers and More Specifications



| Order No.  | Sensitivity Setting | Inclination Angular | Inclination Inch/10" | Inclination mm/meter | Base Size | Base Type                        |
|------------|---------------------|---------------------|----------------------|----------------------|-----------|----------------------------------|
| 54-830-104 | High                | 1 second            | 0.00005              | 0.005                | 4"(110mm) | Hardened Steel<br>w/Dust Grooves |
|            | Low                 | 10 second           | 0.0005               | 0.05                 |           |                                  |
| 54-830-234 | High                | .2 second           | 0.00001              | 0.001                | 4"(110mm) | Prismatic<br>V-Groove            |
|            | Low                 | 2 second            | 0.0001               | 0.01                 |           |                                  |
| 54-830-116 | High                | 1 second            | 0.00005              | 0.005                | 6"(150mm) | Slotted<br>Screw-On              |
|            | Low                 | 10 second           | 0.0005               | 0.05                 |           |                                  |
| 54-830-216 | High                | .2 second           | 0.00001              | 0.001                | 6"(150mm) | Slotted<br>Screw-On              |
|            | Low                 | 2 second            | 0.0001               | 0.01                 |           |                                  |
| 54-830-226 | High                | .2 second           | 0.00001              | 0.001                | 6"(150mm) | Angular<br>w/V-Grooves           |
|            | Low                 | 2 second            | 0.0001               | 0.01                 |           |                                  |
| 54-830-128 | High                | 1 second            | 0.00005              | 0.005                | 8"(200mm) | Angular<br>w/V-Grooves           |
|            | Low                 | 10 second           | 0.0005               | 0.05                 |           |                                  |

54-830-500 Remote Display for Minilevel NT

\*Above levels calibrated in Arc Seconds. Models calibrated in µm/m available on special order .