

# Fowler

## Leveltronic NT and Levelmeter 2000

The new generation Leveltronic NT with remote display Levelmeter 2000 measures small angles with precision and reliability. Especially designed for use in industrial environments with high humidity. Primary applications are flatness measurement of surface plates and measurement of geometrical errors of machine beds and guide-ways.

- Rugged precision aluminum housing for protection against external influences.
- Connection to Levelmeter 2000 #54-845-000 provides external power.
- Bases with magnetic inserts optionally available.

Levelmeter 2000 allows a number of possible configurations and may be used as a hand-held terminal for digital Wyler levers such as Leveltronic NTs. The large digital display can be adjusted to all commonly used units in inclination measurements.

Levelmeter has two individual measuring channels. Adjust display for following set-up: Single display of channel A or B. Differential mode (A-B). Alternating display of the channels A, B every 5 seconds

Levelmeter 2000 functions:

- Automatic setting of absolute zero when using reversal measurement.
- Preset function of angles & setting of relative zero. Setting of limits and signalling the respective status, exporting the measured values via RS232 port.
- Power supply: 4 AA 1.5V Alkline batteries (34 hrs). Option: 4 AA 1.2V NiMH rechargeable batteries (20 hrs)
- External power supply: +12... + 48 V DC/.
- Power consumption: Batteries 250 mW, external power supply: 500...3000mW.



Leveltronics (left) connected to remote display Levelmeter 2000.

- State of the art digital technology combined with the use of modern electronic components allow signal output in digital or analog form.
- Fulfills CE requirements (immunity against electromagnetic smog).
- Calibrated in seconds of arc. Models calibrated in mm/m available on request.

### Leveltronic NT Specifications

		Level Sensitivity	
Sensitivity	0.2 Seconds	1 Seconds	2 Seconds
Display Range	±400 seconds	±2000 seconds	±4000 seconds
Limits of error up to 0.5 fullscale (DIN 2276)	Maximum 1% of measured value		
Limits of error from 0.5 to fullscale (DIN 2276)	Maximum 1% of (2* measured value - 0.5* fullscale)		
External Display	Within maximum 3 Seconds		
Analog output	1mV equal to 1µm/m 1mV equal to 0.2 Arcseconds	1mV equal to 5µm/m 1mV equal to 1 Arcseconds	1mV equal to 5µm/m 1mV equal to 2 Arcseconds
Digital output	RS485 asynchron 9600 Baud, 7 Bit, 2 Stopbits, no parity		
Temperature Error 1°C	Maximum 0.1% fullscale		
External power supply	+5V DC, 20mW		
Temperature range	Operating 0 to 40°C; storage -20 to +70°C		

Order No.	Description	Base Size/Type	Sensitivity
54-840-134	Leveltronic NT	4" Prismatic "V" base	1 arc seconds
54-840-204	Leveltronic NT	4" base w/dust grooves	0.2 arc seconds
54-840-216	Leveltronic NT	6" screw-on base	0.2 arc seconds
54-840-226	Leveltronic NT	6" angular base	0.2 arc seconds
54-840-328	Leveltronic NT	8" angular base	2 arc seconds
54-845-000	Levelmeter 2000		
54-820-779	Wyler NT software/hardware kit requires (#54-845-000)		
54-845-005	Stand for #54-845-000		
54-845-010	Indoor power supply for #54-845-000		
54-845-015	2.5m Cable for #54-845-000 and 54-840-series		
54-845-020	5m Cable for #54-845-000 and 54-840-series		
54-845-025	2.5m Cable for #54-845-000 and PC		
54-820-111	Set of five interchangeable bases to fit #54-840-216 (2", 3", 4", 5" & 6" step bases)		