WILD NL • ZL • ZNL





WILD ZNL zenith and nadir plummet

Rugged, versatile instrument for centring and plumbing up and down

Features

- Solidly built, heavy-duty instrument
- Accurate and reliable
- Easy to use
- One-piece casting for exceptional stability
- Completely weather-proof
- High-quality telescope
- Zenith and nadir plumbing to 1:30000 (1mm at 30m)
- Forced-centring interchange with Wild theodolites
- Shortest focusing distance 0.35m (1.15ft)

Applications

Plumbing up and down Vertical alignment Precise centring of theodolites and other equipment both above and below reference marks

For use in

Building Construction Engineering Mining

Tunnelling

ingly simple, rugged and reliable plumbing instrument.

Change from sighting up to sighting down

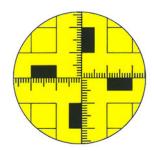
Take the ZNL out of the tribrach. Turn it over. Put it back in the other position!

Many advantages

This simple, straightforward design has many advantages:

- Practically no moving parts
- No switchover mechanism as used in conventional plummets
- Solid one-piece casting to which all components are firmly fixed
- Completely sealed against dust, moisture, rain and sand
- Exceptionally easy to use

The result is an optical plummet of outstanding durability, a reliable instrument anywhere at any time.

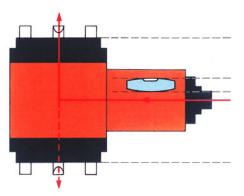


Bright, clear image for easy viewing

The telescope of the ZNL has 9× magnification. The 13mm diameter aperture gathers ample light. The eyepiece has a dioptric ring for quick setting.

With the ZNL, the target is sharp and clear. You can centre and observe accurately.





Reversible bubble Two centring flanges

The ZNL has a reversible bubble, a 30"/2mm tubular level which is perfectly symmetrical on both sides.

There is a centring flange at top and bottom. Precision machining ensures that

these flanges are exactly parallel and centred precisely to each other.

This unique design results in a fully reversible instrument.

Put it in the tribrach one way for plumbing up. Put it in the other way for plumbing down! The line of sight remains in the same vertical line.

Plumbing accuracy 1:30 000

For maximum accuracy simply level up, observe, rotate the plummet through 180° and observe again.

The ZNL turns easily and precisely on a wide-diameter precision axis. Plumbing accuracy is 1mm over 30m 0.003ft over 100ft.

Any tribrach and tripod for zenith plumbing



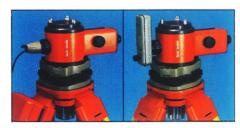


Tribrach GDF23 and tripod GST20-7 for Nadir Plumbing

For sighting down, it is preferable to use the tribrach GDF23 and the tripod GST20-7.

The GDF23 has an extra-large opening in the tribrach base plate. The GST20-7 has an extra-large diameter central fixing screw.

The large opening is designed for observing downwards with an optical plummet.



Electric illumination for work in poor light

As an option, the ZNL can be fitted with a socket into which an electric lamp can be plugged. The lamp illuminates the field of view

It is the same lamp as used for the electric illumination of the WILD T1 and T16 theodolites.



Optional accessories

The ZNL eyepiece is detachable, hence all eyepiece accessories for Wild theodolites and levels can be used with the ZNL.

The WILD GLO2 Laser Eyepiece is of particular interest as it converts the ZNL into a laser plummet. A bright red laser spot marks the target. Alignment, positioning and reading are carried out at the target itself rather than by an observer at the instrument.

Eyepiece accessories such as the diagonal eyepiece, autocollimation eyepiece and eyepiece lamp can also be used with the ZNL if required.

The WILD GMT5 Translation Stage is a valuable aid for precise centring and for measuring displacements in vertical alignment. The ZNL fits on the translation stage for both zenith and nadir plumbing.

The WILD GST9 Instrument Bracket is useful if the ZNL has to be set up on beams, columns, supports etc, where a tripod cannot be used.

WILD ZL automatic zenith plummet WILD NL automatic nadir plummet



Top-quality zenith and nadir plumbing

The WILD ZL zenith plummet and WILD NL nadir plummet, both of them automatic, have been developed on the basis of the latest technologies, but retain traditional design principles. The images seen down the telescopes of these two automatic plummets are erect, rich in contrast, and magnified considerably. The line of sight is in each instance set vertically by means of two compensators operating in planes at right-angles to one another. One sighting per plumbing is therefore sufficient for most tasks. For nadir sighting, a WILD GST20 tripod can be modified by means of the conversion kit 352 249 to give telescopic images of superb quality.

2.5kg

Technical data

Standard deviation when plumbing with two observations at 180°

Telescope magnification
Free aperture
Field diameter at 100m
Shortest focusing distance
Compensator range in both directions
Setting accuracy in both directions
Sensitivity of tubular level
Weight
GDF21 tribrach
Container

Illustrations, descriptions, and technical data are not binding and may be changed without notice.

WILD ZL	WILD NL	WILD ZNL
. automatic	automatic	tubular level
1:200 000	1:200 000	1:30 000
0.5mm at 100m	0.5mm at 100m	1mm at 30m
24×	24×	7× (FOK88)
36mm	30mm	13mm
3.2m	3.2m	10m
0.9m	0.35m	
±10'	$\pm 10'$	
±0.3"	$\pm 0.3''$	
4'/2mm	4'/2mm	30"/2mm
2.3kg	2.2kg	1.6kg
0.8kg	0.8kg	0.8kg

2.5kg



2.5kg

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