wylerLEVEL

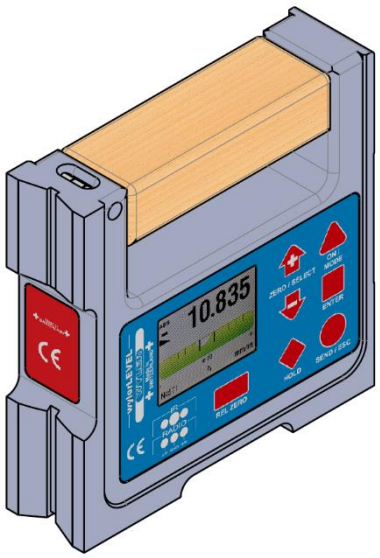
Features

Alignment and measurement of horizontal and vertical machine parts
The wylerLEVEL can be used in the way as all the measuring instruments from the BlueSYSTEM product range.

Squareness-measurement
The wylerLEVEL meets the accuracy of an angular BlueLEVEL with the advantage of a solid housing, which improves the stability of vertical measurements.

Comparison of vertical guideways facing opposite to each other
The comparison of a left and a right vertical guideway is possible with the wylerLEVEL.

C (no base possible)



B **D**

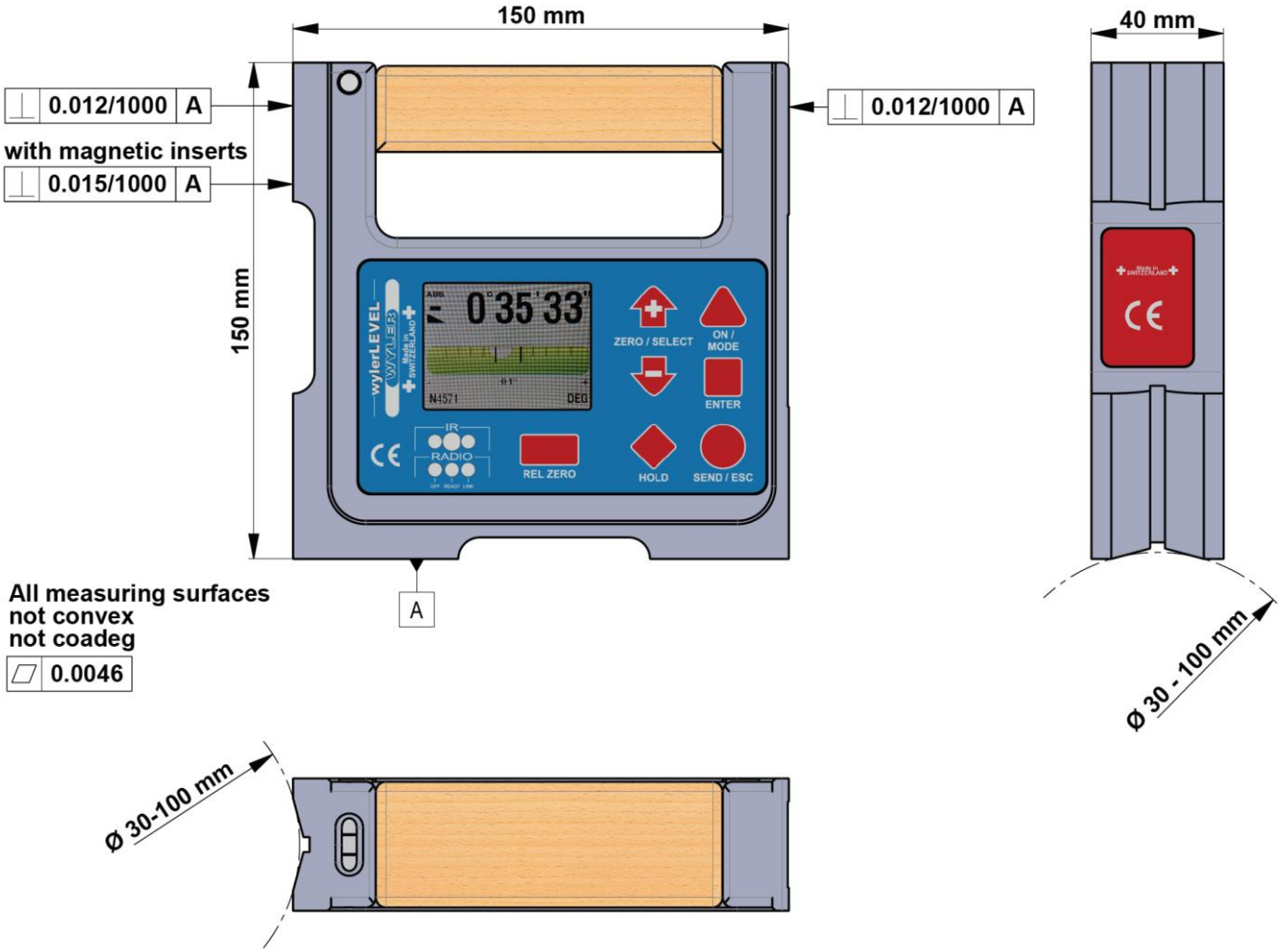
A

Definition of naming the 3 bases in the further context:

Starting with A at the main reference, the horizontal bottom base.
The other bases are named B, C and D in clockwise direction.

Measuring faces: xF → flat
xP → prismatic
→ e.g. AF → horizontal flat measuring face

Dimensions:



Specifications and applicable standards

Housing	Standard	Option
Material	Cast iron - nickel plated	
Dimension L x W x H	150 x 40 x 150 mm	
Base A	Prismatic - scraped	Magnetic inserts (do not comply to DIN877)
Base B	Prismatic - scraped	Magnetic inserts (do not comply to DIN877)
Base C	No base possible	
Base D	Flat - grinded	
Operating temperature	0 … 40°C	
Storage temperature	-30 … 70°C	
Standards	DIN 877 and DIN 2276/2	
Relative humidity	Max. 80 % RH up to 31 °C, decreasing linearly to 50 % RH at 40 °C	
Protection class	IP 50	
Weight with batteries	3.45 kg	

Specification		
Range	± 20 mm/m	
Sensitivity	0.001 mm/m	
Limits of error (DIN 2276/2)	M_W <= 0.5 M_E max. 1 % M_W min. 1 digit	M_W > 0.5 M_E max. 0.01 (2 |M_W | - 0.5 M_E)
Temperature error (DIN 2276/2) / °C (Ø10 °C)	M_W <= 0.1 M_E max. 0.002 mm/m	M_W > 0.1 M_E max. 0.020 mm/m
Response time	5 sec	

M_W = measured value
M_E = full-scale

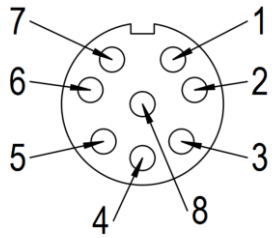
Unit	Decimals	Value in Display	Unit in Display
mm per m	2	xxx.xx	mm/m
mm per m	3	xxx.xxx	mm/m
Inch per 10 Inch	4	xx.xxxx	"/10"
Inch per 12 Inch	4	xx.xxxx	"/12"
milli radian	2	xxxx.xx	mRad
milli radian	3	xxx.xxx	mRad
mm per relative base	2	xxx.xx	mm/REL
mm per relative base	3	xx.xxx	mm/REL
Inch per relative base	4	xx.xxxx	"/REL
artillery per mill	2	xxx.xx	A‰
per mill	2	xxx.xx	‰
percent	3	xxx.xxx	%
degree	3	xxx.xxx°	DEG
degree	4	xx.xxxx°	DEG
degree + arc minutes		xx°xx'	DEG
degree + arc minutes + arc seconds		xx°xx'xx"	DEG
arc minutes + arc seconds		xxxx'xx"	DEG
arc seconds		xxxxxx"	DEG
arc seconds	1	xxxxx.x"	DEG
centesimal degree	3	xxx.xxx	GON
centesimal degree	4	xx.xxxx	GON
slope		1/xxxx	SLOPE

Electrical Characteristic	
External power supply	24 V DC / 5 V DC
Current consumption	220 mA @ 5 V DC
Batteries	2x 1.5 V batteries, size C 2x 1.2 V rechargeable batteries, size C
Rechargeable batteries charging in device	Not supported

RS485 / RS232	
Value update rate	max. 3 values per second
Temperature reading	not supported
Interfaces	wylerCONNECT, WYLER universal cable
Connectivity	wylerEXPLORER: v2.0.5.0 or higher wylerSPEC: v2.0.5.0 or higher wylerINSERT: v2.0.4.0 or higher wylerDYNAM: v2.0.0.0 or higher wylerCHART: v2.0.0.0 or higher
Digital output	RS232 / RS485, asynchronous, 7 DataBits, 2 StopBits, no parity, 9600 bps

Bluetooth	
Value update rate	max. 3 values per second
Interfaces	wylerCONNECT
Connectivity	wylerEXPLORER: v2.0.5.0 or higher wylerSPEC: v2.0.5.0 or higher wylerINSERT: v2.0.4.0 or higher wylerDYNAM: v2.0.0.0 or higher wylerCHART: v2.0.0.0 or higher APP wylerUNIVERSAL for Android ONLY
Range	ca. 10 meter

Pinout Port



Pin	Name	Description
1	+24 V	+ 24 V DC power
2	GND	Ground
3	+ 5 V	+5 V DC power
4	RTA / TX	WYLER RS485 channel A or RS232 transmit line
5	RTB	WYLER RS485 channel B
6	RX	RS232 receive line
7	RTS	RS232 request to send
8		Not used

Please Note:

To lock the connectors, the threaded ring is tightened until it is ‘finger-tight’ (approx. 50 Ncm).

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