

wylerLEVEL Frame 160 mm

Features

Alignment and measurement of horizontal and vertical machine parts

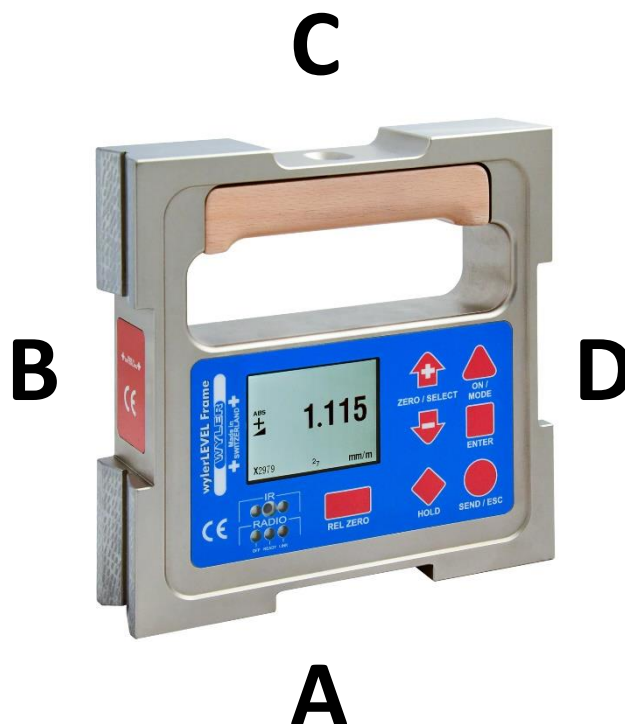
The wylerLEVEL Frame can be used in the way as all the measuring instruments from the BlueSYSTEM product range.

Squareness-measurement

The wylerLEVEL Frame 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 Frame.



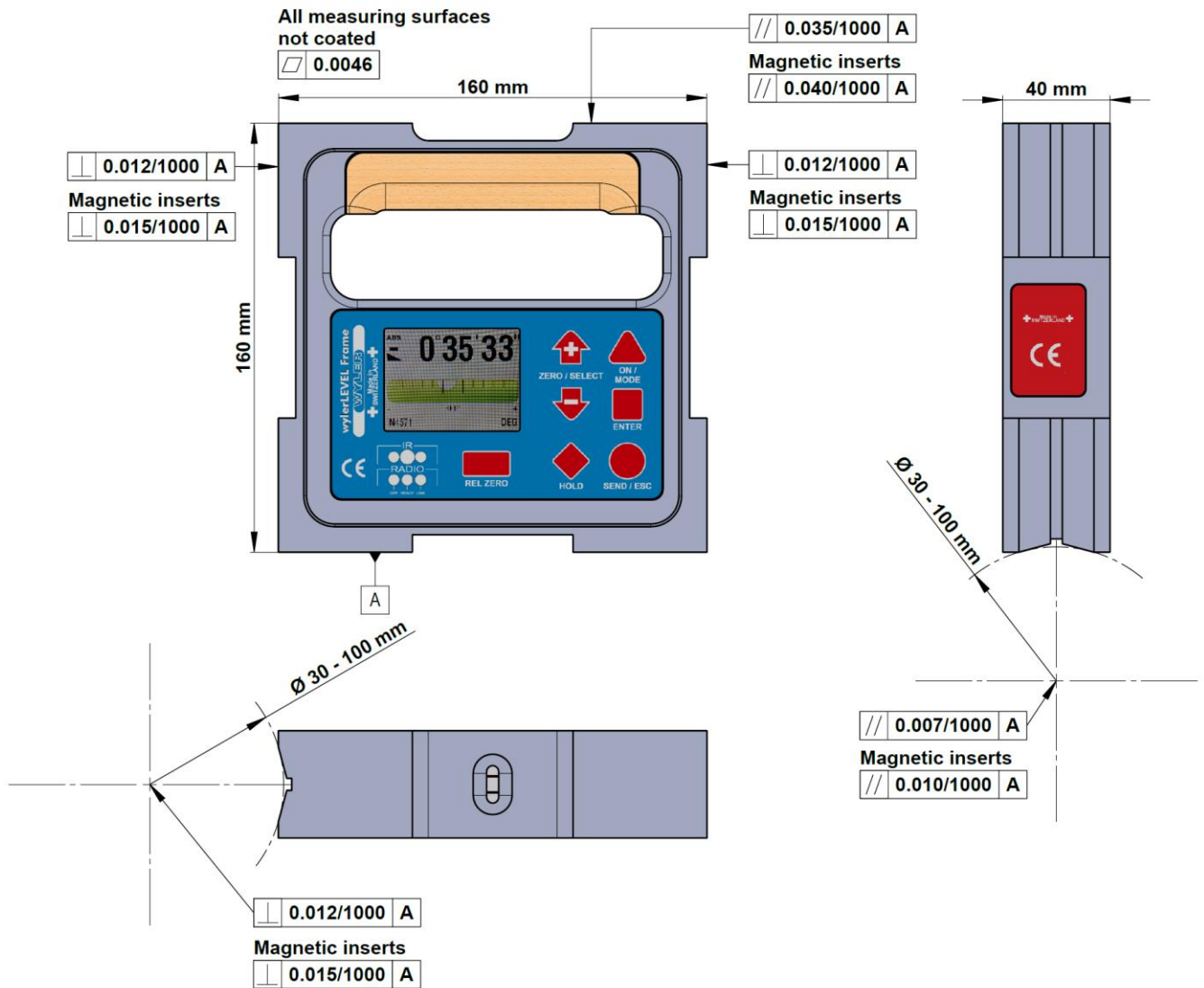
Definition of naming the 4 bases in the further context:

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

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Dimensions:



Specifications and applicable standards

Housing	Standard	Option
Material	Cast iron - nickel plated	
Dimension L x W x H	160 x 40 x 160 mm	
Base A	Prismatic - scraped	Magnetic inserts
Base B	Prismatic - scraped	Magnetic inserts
Base C	Flat - grinded	Magnetic inserts
Base D	Flat - grinded	Magnetic inserts
Operating temperature	0 ... 40°C	
Storage temperature	-30 ... 70°C	
Standards	WYLER specification	
Relative humidity	Max. 80 % RH up to 31 °C, decreasing linearly to 50 % RH at 40 °C	
Protection class	IP 50	
Weight with batteries	3.60 kg	

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Specification		
Sensitivity	0.001mm/m 0.2 arcsec	
Range	± 20 mm/m	
Limits of error	max. 1% M _w min. 0.001 mm/m	
Temperature error / °C (Ø10 °C)	M _w ≤ 2 mm/m max. 0.002 mm/m	M _w > 2 mm/m max. 0.020 mm/m
Response time	< 5 sec	

M_w = measured value

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

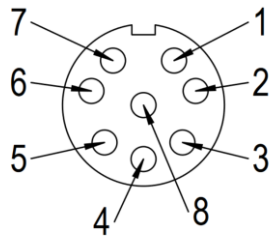
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Electrical Characteristic	
External power supply	24 V DC / 5 V DC
Current consumption	220 mA @ 5 V DC
Batteries	2x 1.5 V batteries, size C 2x 1.2 V rechargeable batteries, size C
Rechargeable batteries charging in device	Not supported

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).