

## wylerLEVEL Frame 200 mm

### Features

#### Alignment and measurement of horizontal and vertical machine parts

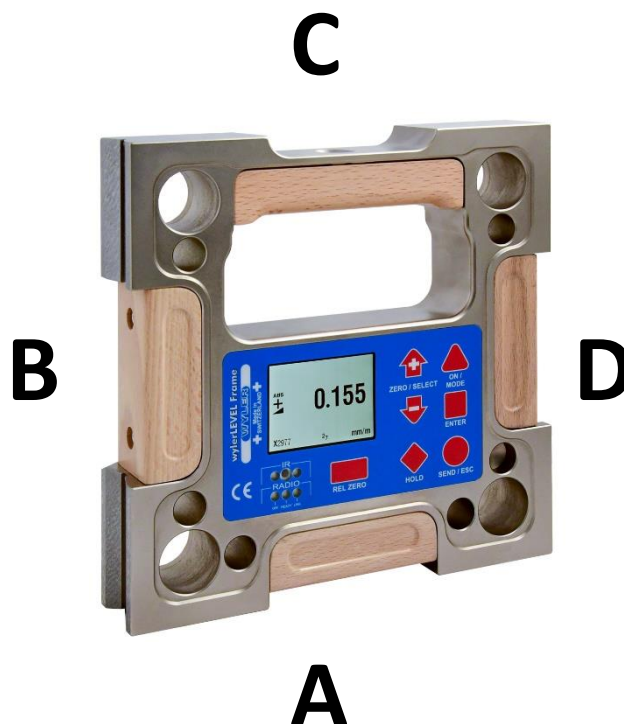
The wylerLEVEL Frame can be used in the way as all the measuring instruments from the BlueSYSTEM product range.

#### 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.



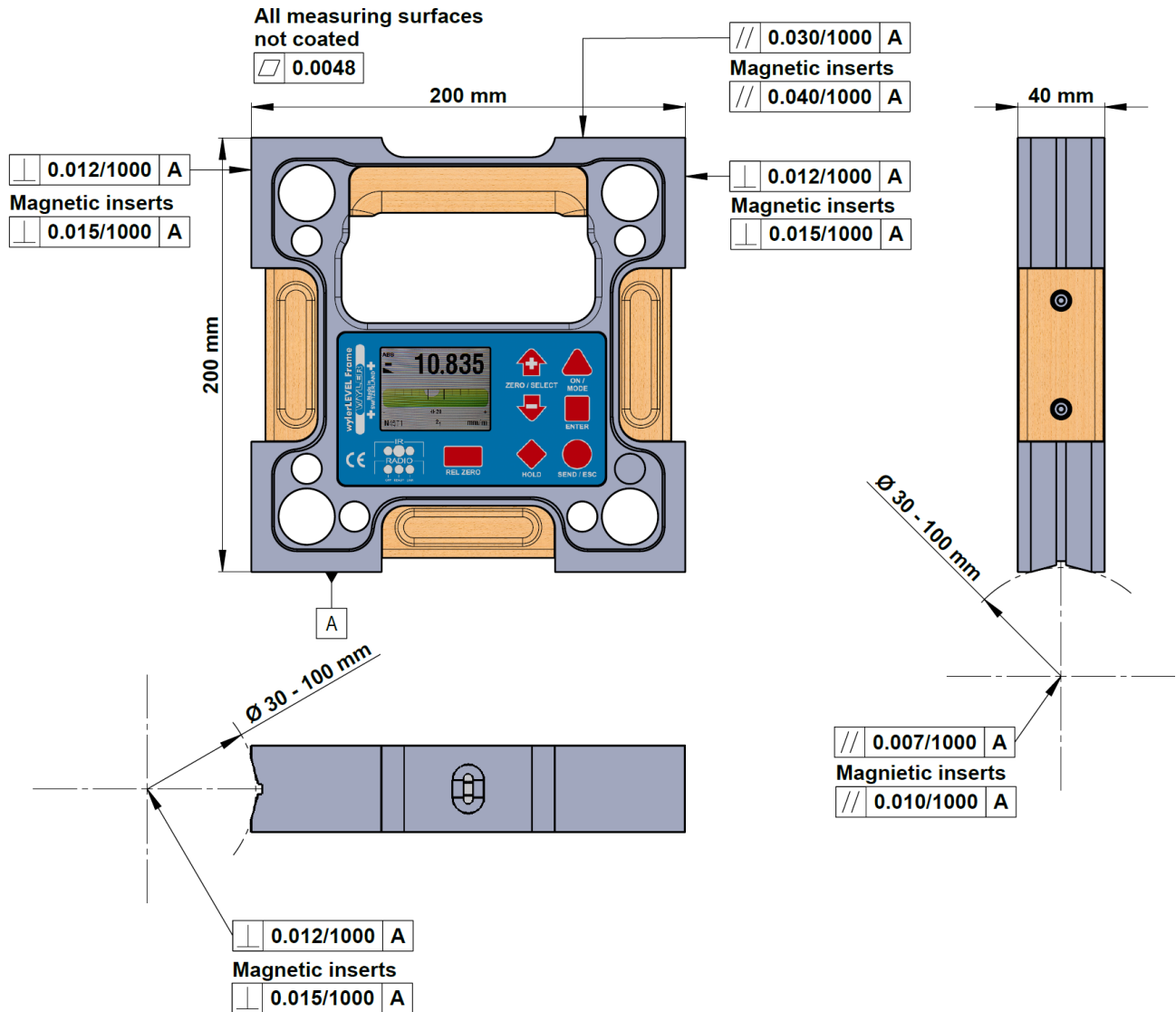
#### Definition of naming the 4 bases in the further context:

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
<b>Material</b>	Cast iron - nickel plated	
<b>Dimension L x W x H</b>	200 x 40 x 200 mm	
<b>Base A</b>	Prismatic - scraped	Magnetic inserts
<b>Base B</b>	Prismatic - scraped	Magnetic inserts
<b>Base C</b>	Flat - grinded	Magnetic inserts
<b>Base D</b>	Flat - grinded	Magnetic inserts
<b>Operating temperature</b>	0 ... 40°C	
<b>Storage temperature</b>	-30 ... 70°C	
<b>Standards</b>	WYLER specification	
<b>Relative humidity</b>	Max. 80 % RH up to 31 °C, decreasing linearly to 50 % RH at 40 °C	
<b>Weight with batteries</b>	4.60 kg	

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

M<sub>w</sub> = 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

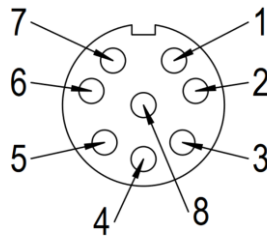
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Electrical Characteristic	
<b>External power supply</b>	24 V DC / 5 V DC
<b>Current consumption</b>	220 mA @ 5 V DC
<b>Batteries</b>	2x 1.5 V batteries, size C 2x 1.2 V rechargeable batteries, size C
<b>Rechargeable batteries charging in device</b>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

RS485 / RS232	
<b>Value update rate</b>	max. 3 values per second
<b>Temperature reading</b>	not supported
<b>Interfaces</b>	wylerCONNECT, WYLER universal cable
<b>Connectivity</b>	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
<b>Digital output</b>	RS232 / RS485, asynchronous, 7 DataBits, 2 StopBits, no parity, 9600 bps

Bluetooth	
<b>Value update rate</b>	max. 3 values per second
<b>Interfaces</b>	wylerCONNECT
<b>Connectivity</b>	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
<b>Range</b>	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).