

WYLER AG, Im Hölderli 13 CH-8405 Winterthur	Datasheet BlueLEVEL II	949-DB-0035
		Revision: 2.0
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BlueLEVEL II

Type of Instrument	P/N: 016Rbbb-xxx-sss	(BlueLEVEL radio)
Length of base / mm	P/N: tttR150-xxx-sss	(110 / 150 / 200 mm)
Base type	P/N: tttRbbb-243-sss	(113/117/122/126/133/136/173/17B/213/ 217/218/243/247/248/24E/24F/24G/24N/453)
Sensitivity	P/N: tttRbbb-xxx-001	(0.001 mm/m)

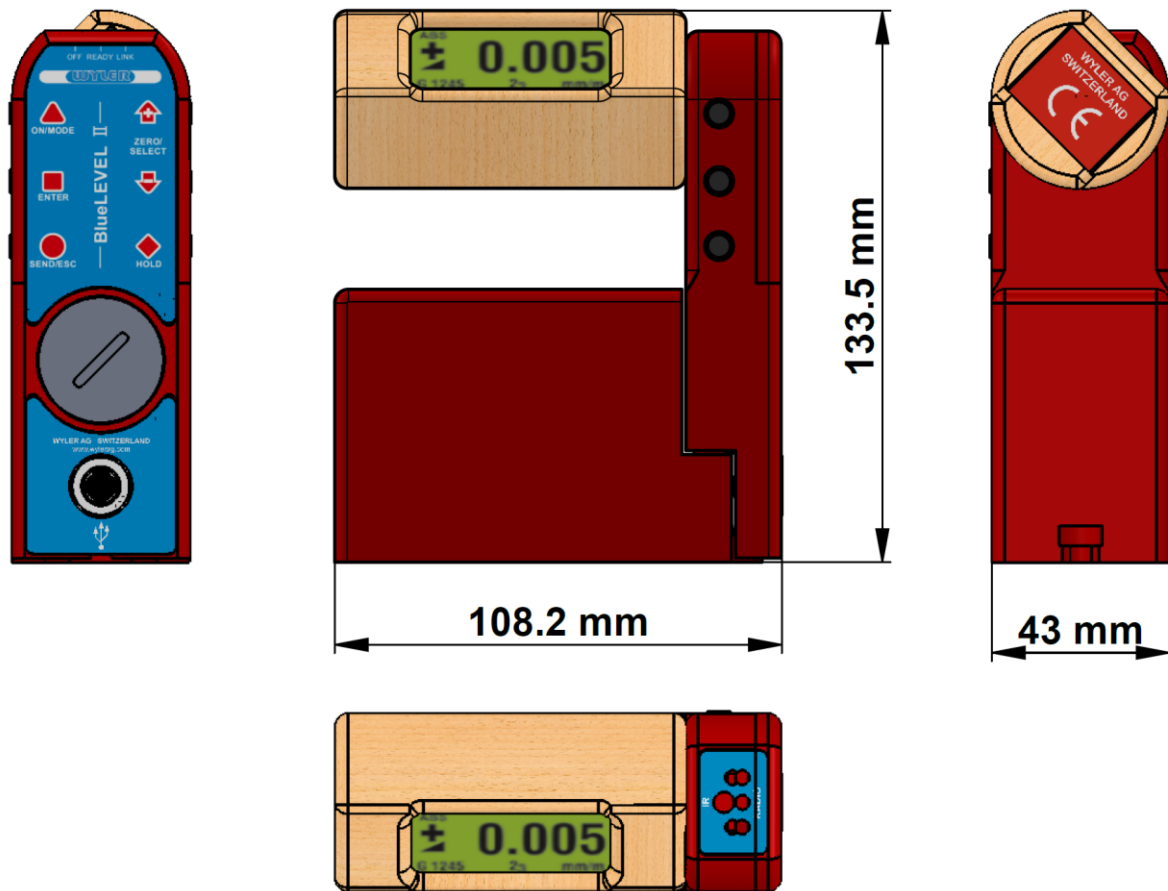


For the **BlueLEVEL II** measuring instruments are various horizontal and angular measuring bases available. Depending on the measuring tasks, each of them has its specific advantages.

Short description of the different options:

- Horizontal measuring base, prismatic - for measurements on horizontal surfaces and shafts
- Horizontal measuring base, with dust grooves - particularly suitable for flatness measurements on granite, length 150 and longer with 2 through holes for screwing-on
- Angular base made of cast iron, horizontal and vertical flat - for measurements on horizontal and vertical surfaces as well as for measuring the rectangularity of a measuring object
- Angular base made of cast iron, horizontal and vertical prismatic – for measurements on horizontal and vertical surfaces and shafts as well as for measuring the rectangularity of a measuring object
- Most measuring bases can be ordered with magnetic inserts
- Further options on request

Dimensions:



Specifications and applicable standards

Specification Housing	
Material	
Housing	Aluminum (hard anodized)
Handle	Wood (optional aluminum, clean room)
Dimension L x W x H	108.2 x 43 x 133.5 mm
Operating temperature	0 ... 40°C
Storage temperature	-30 ... 70°C
Relative humidity	Max. 80 % RH up to 31 °C, decreasing linearly to 50 % RH at 40 °C
Protection class	Not classified
Weight with batteries	1.20 kg (without measuring base)

Specification		
Measuring range	± 20 mm/m	
Sensitivity	0.001 mm/m (0.2 arcsec)	
Limits of error	max. 1 % M _w min. 0.001 mm/m	
Temperature error / °C (Ø 10 °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

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Unit	Decimals	Value in Display	Unit in Display
mm per m	3	xxx.xxx	mm/m
mm per relative base	3	xxx.xxx	mm/REL
arc seconds	1	xxxxx.X''	DEG

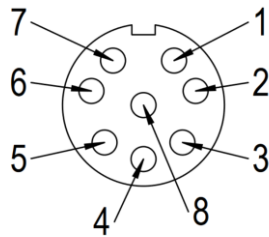
Electrical Characteristic	
External power supply	5 V DC
Current consumption	220 mA @ 5V DC
Batteries	2x 1.5 V batteries, size C 2x 1.2 V rechargeable batteries, size C
Rechargeable batteries charging in device	Not supported

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: v2.1.0.0 or higher wylerSPEC: v2.4.0.0 or higher wylerINSERT: v2.4.0.0 or higher wylerDYNAM: v2.2.0.0 or higher wylerCHART: v2.2.0.0 or higher APP wylerUNIVERSAL for Android ONLY
Range	ca. 10 meter

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Pinout Port



Pin	Name	Description
1	--	Not used
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 connector to the device, the threaded ring is tightened until it is 'finger-tight' (approx. 50 Ncm).