

BlueLEVEL-2D

P/N: 016S3010-2DG01



The **BlueLEVEL-2D** combines two high-precision inclination sensors in a compact housing to measure X and Y axis at the same time.

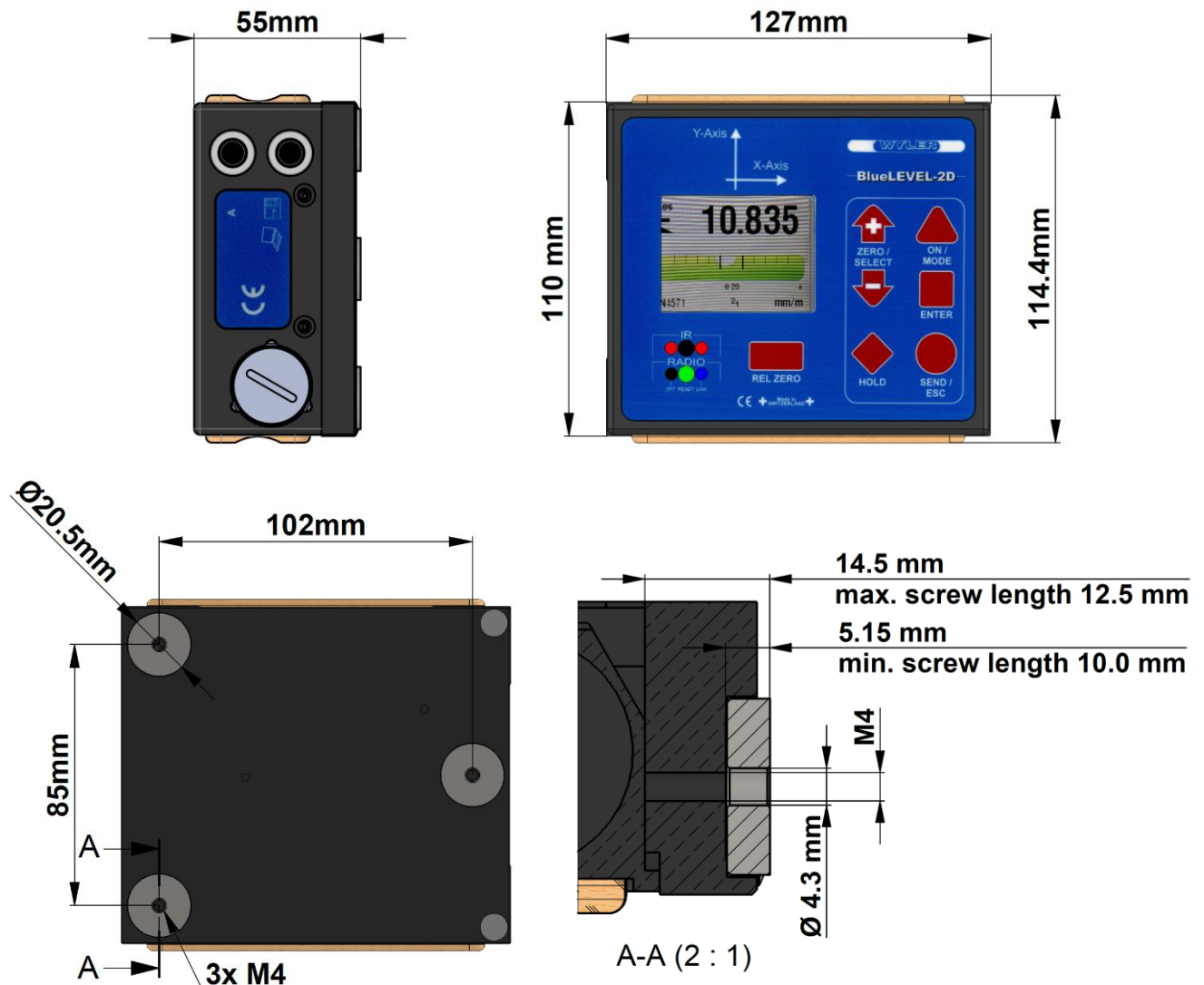
BlueLEVEL-2D has the following features:

- Rugged, rust-protected housing made of aluminium
- High precision bases with three inserts made of carbide steel $\varnothing$ 20 mm with one M4 thread each
- Large and very easy-to-read color display
- Various display methods can be chosen
- Different measurement units can be indicated
- Wireless communication, based on Bluetooth technology
- The instrument is compatible with the full range of WYLER digital sensors
- Powered by standard 1.5 V batteries, rechargeable batteries or with main adapters
- The internal software allows a simple zero setting, using a reversal measurement
- Fulfills the strict CE- / FCC requirements (immunity / emission electromagnetic smog)

Options:

- External power supply 24 V
- Cable to connect the instrument to a PC
- Software to collect measuring data
- Various attachable measuring bases on special request, like e.g. prismatic, varioBase-2D

Dimensions:



Specifications and applicable standards

Specification	
Material:	
Housing	Aluminum (hard anodized)
3-point measuring surface	Carbide steel
Handle	Wood (optional aluminum, clean room)
Dimension L x W x H	127 x 55 x 114.4 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	IP 50
Weight with batteries	1.40 kg

WYLER AG, Im Hölderli 13 CH-8405 Winterthur	Datasheet BlueLEVEL-2D	949-DB-0008
		Revision: 2.0
		Page 3 of 5

Specification		
Sensitivity	0.001 mm/m 0.2 arcsec	
Measuring range	± 20 mm/m	
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
Lateral stability sensor X <> Y	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	xxxx.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	xxxx.xx	mm/REL
mm per relative base	3	xxx.xxx	mm/REL
Inch per relative base	4	xx.xxxx	"/REL
artillery per mill	2	xxxx.xx	A‰
per mill	2	xxxx.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
slope		1/xxxx	SLOPE

WYLER AG, Im Hölzli 13 CH-8405 Winterthur	Datasheet BlueLEVEL-2D	949-DB-0008
		Revision: 2.0
		Page 4 of 5

Electrical Characteristic

External power supply	24 V DC / 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

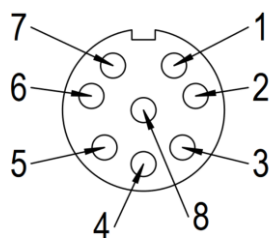
RS485 / RS232

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: v2.0.5.0 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	approx. 10 meters

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 connector to the device, the threaded ring is tightened until it is 'finger-tight' (approx. 50 Ncm).