

SWISS PRIME MEASURING SINCE 1957

Modular Single Axis Large-Field Measuring Head with HLF Technology. Measuring Field = 550 mm (21.65 in.).

ODAC® 550

Modern single axis measuring head from the ODAC[®] laser measuring unit series. Highest accuracy, robustness, reliability and functionality distinguish all the laser heads from ZUMBACH. The ODAC[®] 550 is manufactured with a modular design. It is available with a support rail or as individual emitter and receiver parts when a maximum of flexibility is required to install the head in any position. The measuring head can also be installed in constricted confines or several emitter/ receiver pairs can be mounted in the same plane. ODAC[®] 550 models can be used in virtually every manufacturing process in the wire and cable industry, the plastics and rubber industry as well as the steel and metal industry.

Known for precision, quality and ease of use the laser measuring heads from ZUMBACH are among the best of their class.

The technological basis considered for these measuring heads is always of the latest cutting edge technology, with laser diodes as light sources combined with intelligent and powerful measured-value processors which facilitate a simple and flexible integration. Our long-standing experience as a pioneer of in-line measuring technology, combined with high production figures result in a product with an excellent priceperformance ratio.

Amongst the outstanding features are features such as single scan calibration (CSS), single scan monitoring and high data rate output of up to 333* data packages per second. The measuring heads can be used with all line speeds. Vibrations during production have no noticeable influence on measurements.

* Depending on the measuring head model, the number of transmitted measured values as well as the baud rate of the interface.

Adaptive signal processing in the measuring units increase accuracy

All the measuring heads of the ODAC[®] series have adaptive signal processing (patent DE3111356), which makes subsequent regular re-calibrations superfluous. Only in instances of component exchange or compliance to calibration regulations ISO 9001 etc would re-calibration be required.

All the relevant parameters for accuracy are continuously monitored by the measuring system and automatically compensated. This is valid in particular also for possible longterm changes of the behaviour of the scanner motor or the measuring electronics.

Flexible communication integration

- RS (-232 /-422 /-485) PN (Profinet IO V2.3)
- DP (Profibus DP)
- EN (Ethernet TCP/IP) •
- El (EtherNet/IP)
 - J (digital, for connection to USYS processors)

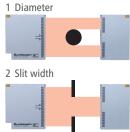


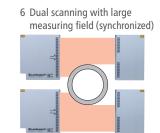
Main advantages

- Very high scan rate (measuring frequency) Standard: 1000/s, Version F: 2000/s
- High precision measurement
- High insensitivity to dirt and dust

Flexible mounting With or without rail, different measuring distances

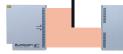
Types of measurement

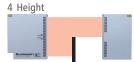




7 Dual scanning XY (synchronized)

3 Penetration depth







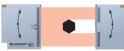
Special applications Measurement of hot steel



Other types of measurement on request

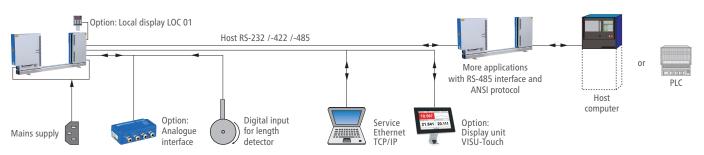
Profile measurement

with rotating device



System Overviews

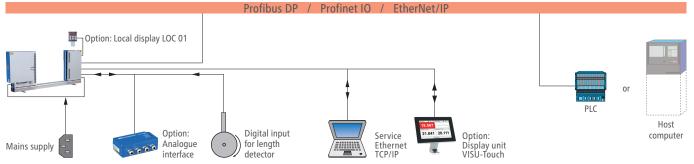
ODAC[®] 550EN-RS (serial interface)



The built-in processor allows the acquisition and filtering of the measured values, as well as statistic functions, parameter selection and many other functions. The RS version communicates via the integrated

RS interface with a higher level system, like USYS from ZUMBACH, host computer (or PLC). The ZUMBACH protocols ODAC, ASCII or the network capable ANSI software protocols are selectable according to choice.





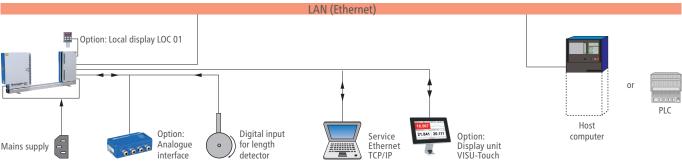
The built-in processor allows the acquisition and filtering of the measured values, as well as statistic functions, parameter selection and many other functions. These versions communicate via the integrated Profibus DP or Profinet IO interface with a higher level system. These interfaces are designed for high speed data transfer at the sensor

actuator level. At this level, controllers such as programmable logic controllers (or PLC's) exchange data via a fast serial (Profibus DP) or Ethernet (Profinet IO) connection with their distributed peripherals such as drivers, valves or intelligent slaves like ODAC measuring heads from ZUMBACH.

ZUMBACH protocols (ODAC or ASCII) are integrated and transmitted

in the well known TCP/IP protocol. TCP/IP allows the data transfer

through existing networks such as LANs and others.



The built-in processor allows the acquisition and filtering of the measured values, as well as statistic functions, parameter selection and many other functions. The EN version communicates via the integrated EN interface with a higher level system. The selectable

ODAC[®] 550Jxx with the corresponding external ZUMBACH processors





USYS 200



2





ODAC[®] 550EN-EN (Ethernet)

Accessories

Description

Set of calibration standards

- Delivered in a protection box, comprising:
- Calibration standard holder
- Calibration standard ø6 and 400 mm
- Certificate

Other calibration standards on request.

Local display LOC 01

Requires connection cable no. ODAC.9167.0xxxx* between LOC 01 and the measuring head. Not for ODAC J versions.

* Cable length from 0.4 to 100 m; indicate length with ordering.

VISU-Touch

The VISU-Touch is a rugged and compact 7" touch screen. This universal PoE (Power over Ethernet) powered touch screen enables display of the integrated web interface of the connected measuring head. It is supplied with a holder for fixing on the measuring head. Not for ODAC J versions.



A15 608 8XXX

VISU.001.01XXX

Order Number

LOC.011.01000

ODAC.9501.76000

Ethernet cable

Ethernet network cable cat. 6 S/FTP with RJ45 connectors.

(XXX in the order number stands for:x 0.1 m, e.g. A15 608 8025 stands for 25 x 0.1 m and thus a cable that is 2.5 m long). Not for ODAC J versions.

Description

PoE Injector 48 V, 24 W

Power over Ethernet supply for devices that do not support PoE or a long Ethernet cable. Not for ODAC J versions.

Analogue interface AI4-R

Interface with 4 analogue, 5 digital and 2 relay outputs. Direct connection of the digital input (proximity switch). Not for ODAC J versions.

Signal cable L2 Bus 1DR22 x 02R

For the connection between the Profibus DP interface and the customer's data acquisition system. Only for DP version.

Connector

Counter connector for digital input "I/F". Connection of a proximity switch. It is not required, if the analogue interface is already used. Not for ODAC J versions.

Proximity switch

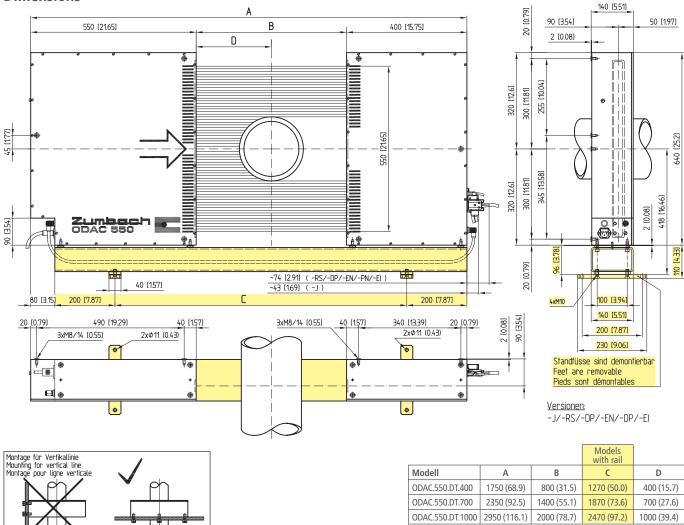
The proximity switch is used for the length detection. Main data:

- Standard: EN 60947-5-6 (NAMUR, NC)

- Switching distance max. 2 mm (.08 in.), flush mounting
- Ambient temperature: -25...100° C (-13...212° F)
- Protection: IP 67, Connection: PVC cable 2 m (6.5 ft.)



Dimensions





Order Number

N2.7860.1000

ODAC.001.100

A13 252 0150

A10 125 0070

Dimensions in mm (inch)



Technical Data

Model ODAC 550		JP / EN-xxP		JSP					
Measurement		Chan dand in du din a much		Come ou ith and also	alastica facilit				
Version Measuring field M ¹⁾		Standard including profi		Same with synchro m (21.65 in.)	nization input				
Min. object ø				im (21.65 m.) im (.08 in.)					
	standard	1000	211	500					
scans/s F version				500					
Scanning speed		2000 – 1056 m/s (3464 ft./s); F version: 2112 m/s (6929 ft./s) 1056 m/s (3464 ft./s)							
Width of laser beam ⁶⁾		1000 m/s (3404 m./s); F			5)				
400 mm		6 mm (0.24 in.)							
(15.75 in)		6 μm (0.1 s) (.00024 in.)) 3 μm (1 s) (.00012 in.)	8 μm (0.1 s) (.000	32 in.) 5 μm (1 s) (.000	02 in.)			
at measuring	700 mm								
distance D	(27.56 in.)	8 μm (0.1 s) (.00032 in.) 5 μm (1 s) (.0002 in.)	10 μm (0.1 s) (.000-	4 in.) 6 μm (1 s) (.000	024 in.)			
and averaging									
time (s)	time (s) (39.37 in.)		10 μm (0.1 s) (.0004 in.) 6 μm (1 s) (.00024 in.) 12 μm (0.1 s) (.00048 in.) 8 μm (1 s) (.00032 in.)						
Measurement error		400 mm (15.75 in.) ± 50 μm (.0020 in.)							
centric at measuring		700 mm (27.56 in.) ± 30 µm (3028 in.)							
distance D ²⁾		1000 mm (39.37 in.) ± 90 µm (.0036 in.)							
Measurement error within									
the measuring zone ³⁾		1.5 x value of the centric measurement error							
Measuring zone (width x height)		600 x 530 mm (23.62 x 20.86 in.)							
Resolution ⁴⁾		1 µm (.00005 in.)							
Light source 5)				aser class 2 (device)					
Types of measurement (see	e page 1)	1, 2, 3, 4, 5		1, 6, 7					
Interfaces / Connections									
Model ODAC 550		EN-RSP	EN-DPP	EN-ENP	EN-PNP	EN-EIP	Jx		
Interface Service				RJ45 10/100BaseT, galva			Only J interfaces to		
Interface Host		RS-232/-422/-485,	Profibus DP (RS-485),	Ethernet TCP/IP,	Profinet IO,	EtherNet/IP,	Zumbach processors:		
interface flost		D-sub. connectors	D-sub. connector 9p./f,	2 x RJ45 10/100BaseT,		2 x RJ45 10/100BaseT,	USYS 20, USYS 200,		
		9p./m, galvani. isolated		galvanically isolated	galvanically isolated	galvanically isolated	USYS IPC 1e,		
Data rate max. standard		333/s	63/s	333/s	63/s	125/s	USYS IPC 2e, CI 1J/EN-		
Data rate max. F version		333/s	125/s	333/s	125/s	200/s	RS/-DP/-EN/-PN/-EI.		
Interface LOC		00010		r Zumbach local display L		20075	Data rate max, 63/s.		
							JSP interfaces via		
Interface I/F			be used for the connection				synchrobox CI 2JS/1J		
		t to	or length detector (e.g. pro	eximity switch according t	:o EN 60947-5-6, NAMUI	R)	to the processors.		
Indicator of contamin. wind	dows		Flashing L	ED on the measuring hea	d (relav output 30 VAC/V	/DC. 0.5 A)			
LED Service interface				Indicates link and traffic					
LED Host interface									
LED Host interface		Indicates traffic			Indicates link, traffic,	Indicates link, traffic,	_		
LED Host interface		Indicates traffic			Indicates link, traffic, system error and	Indicates link, traffic, module status and	-		
LED Host interface		Indicates traffic	Indicates traffic	Indicates link	Indicates link, traffic, system error and bus error				
LED Host interface Energy supply emitter		Indicates traffic	Indicates traffic	Indicates link	system error and	module status and	-		
		Indicates traffic	Indicates traffic	Indicates link	system error and bus error	module status and	-		
Energy supply emitter		Indicates traffic	Indicates traffic	Indicates link and traffic	system error and bus error switchable	module status and	-		
Energy supply emitter Power		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC	system error and bus error switchable	module status and	-		
Energy supply emitter Power Tolerance		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 10	system error and bus error switchable 0% 0 Hz	module status and			
Energy supply emitter Power Tolerance Mains frequency		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 10 50/6	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and			
Energy supply emitter Power Tolerance Mains frequency Operating range		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 10 50/6 47-6 40 V	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and			
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 10 50/6 47-6 40 100-240 VAC	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and			
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 10 50/6 47-6; 40 100-240 VAC 85-265 VAC typically	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and	Supplied by		
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 11 50/6 47-6 40 VAC 85-265 VAC typically 50/60 Hz	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and	the processor		
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range		Indicates traffic	Indicates traffic	Indicates link and traffic 115/230 VAC ± 11 50/6 47-6; 40 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically	system error and bus error 5 switchable 0 % 0 Hz 3 Hz	module status and			
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Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range Power Operating range	liscellaneou		Indicates traffic and error	Indicates link and traffic 115/230 VAC ± 10 50/6 47-63 40 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically 20 VA	system error and bus error switchable 0 % 0 Hz 3 Hz /A	module status and network status	the processor		
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range Power Operating range Power Operating range	liscellaneou		Indicates traffic and error	Indicates link and traffic 115/230 VAC ± 10 50/6 47-6: 40 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically 20 VA 47-63 Hz typically 20 VA	system error and bus error 5 witchable % 0 Hz 3 Hz /A /A port / Storage: -2050°	module status and network status	the processor		
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range Power Operating range	liscellaneou		Indicates traffic and error	Indicates link and traffic 115/230 VAC ± 10 50/6 47-63 40 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically 20 VA	system error and bus error switchable % 0 Hz 3 Hz /A port / Storage: -2050° ondensing)	module status and network status	the processor		
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Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range Power Operation conditions / M Ambient temperature Max. atmospher. humidity Altitude	liscellaneou		Indicates traffic and error Operating: 0.	Indicates link and traffic 115/230 VAC ± 11 50/6 47-6: 100-240 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically 20 VA .45° C (32113° F), Trans 95% (non cc 03000 m (0984:	system error and bus error switchable 0 % 0 Hz 3 Hz /A port / Storage: -2050° ondensing) 8 ft.) over sea level ction plate IP 40	module status and network status	the processor		
Energy supply emitter Power Tolerance Mains frequency Operating range Power Energy supply receiver Power supply Operating range Mains frequency Operating range Power Operating range Power Power Operating range Power	height. In prac to Measuring I ger than "Min. eld M". The cer	s tice, the largest ield Height minus object ø" and smaller tre of the object is at	Indicates traffic and error Operating: 0. Emitter: 35.5 kg (38.	Indicates link and traffic 115/230 VAC ± 1(50/6) 47-63 40 VAC 85-265 VAC typically 50/60 Hz 47-63 Hz typically 20 VA .45° C (32113° F), Trans 95% (non cc 03000 m (0984; Case IP 65, conne 3 Ibs.), Receiver: 23.5 kg (0 Ordering I When ordering 1 Models: Versions:	system error and bus error switchable 0% 0 Hz 3 Hz /A port / Storage: -2050° ondensing) 3 ft.) over sea level ction plate IP 40 51.8 lbs.), short Rail (DT4 • Te nformation g, please specify the follo ODAC 550JP, -JSP or OI P (Profile measurement)	module status and network status C (-4122° F) i00): 29 kg (63.9 lbs.) ichnical specifications are su powing: DAC 550EN-RSP, -DPP, standard, K (Componen	the processor unit (24 VDC / 5 W) bject to change without notice -ENP, -PNP, -EIP its, without rail)		
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⁷⁾ Conformity not verified by UL.



- 2b For ODAC 550EN-DPP, the connection to a higher level system is made with the signal cable # A13 252 0150.
- 2c For the ODAC 550EN-ENP/-ENP version, the connection from the measuring head to the customer's Ethernet port can be made with a standard RJ45 Patch cable.
- 2d Length of the connection cable between ODAC 550JP and the processor. Available lengths: 1, 2, 3, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 m, each 10 m up to 200 m, 220 m, 240 m (3.3, 6.6, 10, 16, 33, 50, 65, 82, 98, 115, 131, 147, 164 ft., each 33 ft. up to 656 ft., 722 ft., 787 ft.). Longer cables on request.
- 2e For "K" versions (without rail): Length of the connection cable between emitter and receiver. Available lengths: 1.5, 2, 3, 4, 5, 6, 8m (5, 6.5, 10, 13, 16.4, 19.7, 26.2 ft.). Minimum length = 2 x measuring distance D + 1 m (1.3 ft.). Order no. B.ODAC.821.32xxx.
- 3 Processor model (Data acquisition system), only for ODAC 550JP: USYS 20, USYS 200, USYS IPC 1e, USYS IPC 2e, CI 1J/EN-RS, CI 1J/EN-DP, CI 1J/EN-EN, CI 1J/EN-PN, CI 1J/EN-EI.
 - Ask for corresponding data sheets.

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