

OCPxxxP0150C

Reflex Sensors with Background Suppression



Operating instructions

EN

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1. Use for Intended Purpose

This wenglor product must be used in accordance with the following functional principle:

High-Performance Distance Sensors

This group brings together the most powerful sensors for distance measurement, which work in reflex mode according to different principles. High performance distance sensors are particularly fast and precise, and demonstrate their high efficiency over large working ranges. They are ideally suited for demanding applications. Even black and shiny objects are reliably detected. Ethernet technology is integrated into selected sensors.

2. Safety Precautions

2.1. Safety Precautions

- This operating instruction is part of the product and must be kept during its entire service life
- · Read this operating instruction carefully before using the product
- Installation, start-up and maintenance of this product has only to be carried out by trained personal
- Tampering with or modifying the product is not permissible
- · Protect the product against contamination during start-up
- · These products are not suited for safety applications

2.2. Laser/LED Warnings



Laser class 1 (EN 60825-1) Standards and safety instructions must be observed.

2.3. Approvals and IP Protection





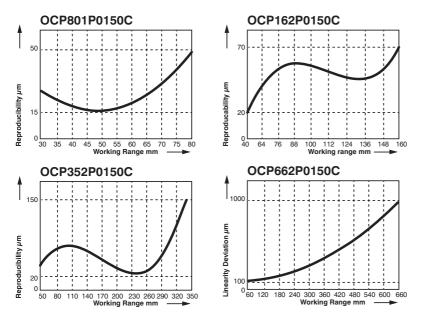
3. Device Features

Order No.	OCP801P0150C	OCP162P0150C	OCP352P0150C	OCP662P0150C	
Working Range	3080 mm	40160 mm	50350 mm	60660 mm	
Measuring Range	50 mm	120 mm	300 mm	600 mm	
Reproducibility	15…50 μm	2070 µm	20…150 µm	70…1000 μm	
Linearity Deviation	50100 μm	50…160 μm	100…500 μm	100…1000 μm	
Temperature Drift	<5 µm/K	<10 µm/K	<20 µm/K	<50 µm/K	
Output Rate		33	0/s		
Light Source		Lase	r (red)		
Wave Length		655	5 nm		
Service Life (T = 25 $^{\circ}$ C)		100	000 h		
Laser Class (EN 60825-1)			1		
max. Ambient Light		1000	0 Lux		
Beam Divergence	< 2 mrad				
Light Spot Diameter	3.6 × 0.9 mm				
Port Type	100BASE-TX				
PoE Class	1				
Temperature Range	–2550 °C				
Reverse-polarity Protection	Yes				
Interface	EtherCAT				
Protection Class	III				
Adjustment	Menu (OLED)				
Housing material	Metal				
Protection Class	IP68				
Connection Type	M12×1, 8-pin				
Webserver	Yes				
EoE (Ethernet over EtherCAT)	λT) 🗸				
Control Panel No.	X2, T15				

Reference material: kodak white 90 % remission

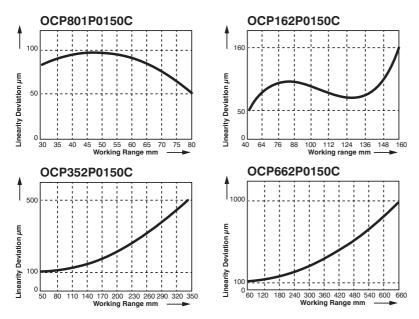
The warm-up phase lasts approx. 30 minutes. At the beginning of this time, the linearity deviation and reproducibility may vary by a factor of up to 10. During the warm-up phase the values improve in the form of an exponential function until the technical data is reached.

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Typical Reproducibility Curves within the Working Range

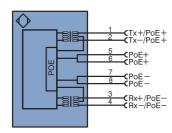
Typical Linearity Error Curves within the Working Range





3.1. Connection Diagram





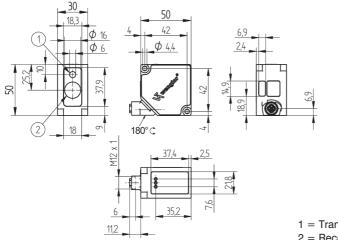
Legend

- 3			P1
+	Supply Voltage +		nc
-	Supply Voltage 0 V		U
~	Supply Voltage (AC Voltage)		Ū
А	Switching Output	(NO)	W
Ā	Switching Output	(NC)	W -
V	Contamination/Error Output	(NO)	0
V	Contamination/Error Output	(NC)	0-
E	Input (analog or digital)		BZ
Т	Teach Input		Awv
Z	Time Delay (activation)		а
S	Shielding		b
RxD	Interface Receive Path		SY
TxD	Interface Send Path		SY-
RDY	Ready		E+
GND	Ground		S+
CL	Clock		÷
E/A	Output/Input programmable		SnR
۲	IO-Link		Rx+/-
PoF	Power over Ethernet		

PT	Platinum measuring resistor
nc	not connected
U	Test Input
Ū	Test Input inverted
W	Trigger Input
W -	Ground for the Trigger Input
0	Analog Output
0-	Ground for the Analog Output
BZ	Block Discharge
AMV	Valve Output
a	Valve Control Output +
b	Valve Control Output 0 V
SY	Synchronization
SY-	Ground for the Synchronization
E+	Receiver-Line
S+	Emitter-Line
÷	Grounding
SnR	Switching Distance Reduction
Rx+/-	Ethernet Receive Path
	Ethernet Send Path

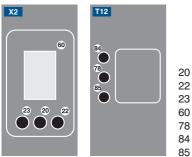
ENARS422	Encoder A/Ā (TTL)		
ENBR5422	Encoder B/B (TTL)		
ENa	Encoder A		
ENв	Encoder B		
Amin	Digital output MIN		
Амах	Digital output MAX		
Аок	Digital output OK		
SY In	Synchronization In		
SY OUT	Synchronization OUT		
017 Brightness output			
м	Maintenance		
rsv reserved			
Wire Colors according to IEC 607			
BK Black			
BN	Brown		
RD	Red		
OG	Orange		
YE	Yellow		
GN	Green		
BU	Blue		
1.000			

3.2. Housing Dimensions



1 = Transmitter Diode 2 = Receiver Diode

3.3. Control Panel



0 =	= Fr	nter	Button	
- 0-		ILCI	Dullon	

- 22 = Up Button
- 23 = Down Button
- 60 = Display
- 78 = Module Status
- 84 = Communication Status
- 85 = Link/Act LED

Designation	Condition	Function	
	Green off	ESM state: Initialisation	
	Green flashing	ESM state: PRE - Operational	
	Flashing green once	ESM state: SAFE - Operational	
	Green on	ESM state: Operational	
Status	Red off	No Error	
Status	Red on	Application controller failure	
	Flashing red once	Local Error	
	Flashing red twice	Process Data Watchdog Timeout/	
	Flashing red twice	EtherCAT Watchdog Timeout	
	Red flashing	Red blinking Invalid Configuration	
	Off	—	
MC (Madula Otatua)	Green	Operate Status	
MS (Module Status)	Red	Device Error	
	Red flashing	—	
	Off	No Ethernet device has been connected to the port.	
L/A	Green	An Ethernet device is connected to the port.	
	Green flashing	An Ethernet device is connected to the port and is	
	Green hasting	currently communicating.	



3.4. Complementary Products

wenglor offers Connection Technology for field wiring.

Suiting Mounting Technology No.	380
Suitable Connection Technology No.	50 31 1 2 3 4 5 6 5 6 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8
Midspan Adapter Z0029	
Switch with PoE ZAC50xN0x	

4. Mounting Instructions

When using the Sensor, follow the corresponding electrical and mechanical regulations, standards and safety rules. The Sensor must be protected against mechanical influence. The Sensor has optimum extraneous light qualities when the background is within the working range.

5. Initial Operation

5.1. Operation on a controller

If you want to place the device into service at a controller, please complete the following steps:

- Connect the Sensor to a switch with PoE using an appropriate cable M12×1; 8-pole. In the case of a switch without PoE, please use the Midspan Adapter (Z0029) for the appropriate voltage supply. When the voltage supply is present, the display on the Sensor starts.
- You will need the EtherCAT XML Device Description File (ESI-File EtherCAT Slave Information) which is available at www.wenglor.com > Product > Product search (Order number) > Product Description Files or in the download area under Download > Product Description Files > Product search > Order number.
- The files should always be stored in the ESI directory of the respective master. If the Twin-CAT software is used, it should be stored in the folder "...\IO\EtherCAT\" in the installation folder.
- The following example shows the steps that have to be carried out (example based on the TwinCat System Manager by Beckhoff):
- First, the list "Echtzeit Ethernet kompatible Geräte" (list of all real-time Ethernet-compatible devices) must be requested.
- Once the correct network card has been installed, new slave devices can be searched for in "E/A Geräte" (I/O devices). If all configurations are correct, the slave devices are now listed in the TwinCAT tree.
- The assemblies can now be switched into "Free Run" mode so that the local cycle runs independently of the pre-set master cycle.
- In the next step, the process data of the individual devices can be configured.

For a more detailed description of the different control systems and the installation of files or the network design, please refer to the help files of the corresponding control system.

		OCPxxxP0150P
Diamlay	Mode	Process
Display	Intensity	Screensaver
Filter		1
Resolution		High
Exposure		DCM
Output Rate		Normal
Laser		ON
Password Activate		Off
	Change	0

5.2. Default Settings



6. Functional Overview OLED-Display

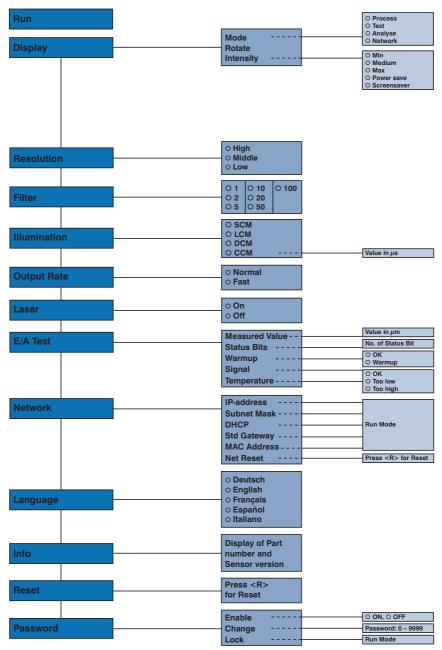






Fig. 1: Set language menu

Navigation by pressing the button:

- : Navigation up.
- : Navigation down.
- ← : Enter Button.

The selection is confirmed by pressing the Enter button.

Meaning of the menu items:

- Back : one level higher in the menu.
- Run : Switch to display mode.

Change to the configuration menu by pressing any button.

Note: If no setting is made in the configuration menu for a period of 30 s, the Sensor returns automatically to the display view.

Pressing the button again returns the Sensor to the last menu view used. If a setting is made, it becomes active once you leave the configuration menu.

Important: To prevent any damage to the buttons, please do not use any pointed objects for setting.

The following explains the functions behind the individual menu items.

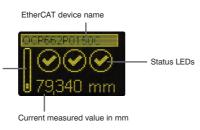


6.1. Run

Bar graph display of the current

measured value relative to the measuring range

The Sensor switches into display mode.



Symbol descriptions of status LEDs:

Symbol Significance		State 1	State 2	State 3
Symbol 1	Warm-up	🐼 ok	📓 wait	-
Symbol 2	Signal Strength	🕑 ok	too low (dirty)	🗱 too high
Symbol 3	Temperature	🕑 ok	too high	🗱 too low

6.2. Display

Display	Adjust the display device		
Mode	Mode:	Select display mode (see chapter 6.2.1)	
Rotate	Rotate:	Rotate display by 180°. By pressing the "←" button the display is rotated	
Intensity		by 180°. The rotation is canceled by pressing this button again.	
Back	Intensity:	Set the display intensity (see chapter 6.2.2)	
∢ Run			

6.2.1. Display Mode

The measured value in mm and the order number always appear at the sensor's display. Selection can be made amongst the following additional displays using the "Display Mode" menu option:

Mode	Adjust the display device		
O Process	Process:	Process: Display of status LEDs for warm-up, signal strength and temperature.	
O Text	Text:	Text: Display of a free text that can be sent to the Sensor via the control.	
O Analysis	Analysis:	Analysis: Display of signal strength in percent and measuring rate in 1/s.	
O Network	Network:	Display of the EtherCAT LEDs MS, CS and L/A. For the function of these	
		LEDs, see "3.3. Control Panel" on page 8.	



6.2.2. Display Intensity

Intensity	Set the display intensity		
O Min	Min:	Min: The intensity of the display is set to a minimum value.	
O Normal	Normal:	Normal: The intensity of the display is set to a medium value.	
O Max	Max:	Max: The intensity of the display is set to a maximum value.	
O Power save	Power save:	Power save: The display switches off after one minute without a button being	
O Screensaver		pressed and automatically switches back on when a button is pressed.	
	Screensaver:	The colors of the display are inverted every minute.	

6.3. Resolution

The number of pixels used by the CMOS line is defined by the resolution. The higher the resolution set, the smaller the detectable movements of an object and the slower the output rate of the Sensor becomes when there is a change in the measured values.

Resolution	Adjust the display device	
O High	High:	High resolution, low output rate
O Medium	Medium:	Medium resolution, medium output rate.
O Low	Low:	Low resolution, high output rate.
Back		
∢ Run		

6.4. Filter

The filter (filter size) is the number of measured values over which the Sensor takes an average. The larger the filter selected, the slower the response time of the Sensor becomes when there is a change in the measured values. A larger filter improves the reproducibility of the Sensor.

Filter	Number of values for averaging
O 1	If 1 is selected, each measured value is output directly without averaging. When-
02	ever a value greater than 1 is selected, the Sensor takes an average over the
O 5	selected number of x measured values.
O 10	
O 20	
O 50	
O 100	
 Back 	
📢 Run	



6.5. Exposure

The Sensor adjusts its exposure time or light pulse duration automatically up to a maximum value on the object to be detected. In the default DCM (Default Capture Mode), the Sensor has a fixed maximum possible exposure time. In the case of black or shiny objects, for example, it can be helpful to lengthen this time. It can be helpful to reduce the exposure time when the Sensor is aimed at the light source. In the case of problematic applications, it can be influenced by different modes or manually.

Exposure	Adjusting Exposure Times	
O SCM	SCM (Short Capture Mode):	The Sensor exposure time can be shortened on
OLCM		dark or glossy objects (e.g. black varnish) in order
O DCM		to reduce a fall in the measuring rate.
O CCM	LCM (Long Capture Mode):	The Sensor exposure time can be lengthened on
Back		dark or glossy objects (e.g. black varnish) in order
∢ Run		to achieve a more accurate measurement.
	DCM (Default Capture Mode):	Default exposure time for standard applications.
	CCM (Custom Capture Mode)	The Sensor exposure time can be adjusted manu-
		ally between 1002000 µs.

6.6. Output Rate

The output rate indicates how often the measured value is refreshed per second at the output.

Output Rate	Adjust Output Rate	
O Normal	Normal: The normal output rate is 100/s.	
O Fast		This means that a new measured value is read out every 10 ms.
 Back 	Fast : The fast output rate is 330/s.	
📢 Run	This means that a new measured value is read out every 3 ms.	
	Note: If this mode is activated, the OLED display is switched off	
		as soon as a EtherCAT controller goes online. It's switch back on
		automatically when the controller goes offline again.

6.7. Laser

In the menu item "Laser", the emitted light can be switched on or off.

Laser	Switch transmitted light on or off	
O On	ON:	Switch transmitted light on
O Off	OFF:	Switch transmitted light off; the Sensor no longer supplies mea-
 Back 		sured values
📢 Run		

6.8. I/O Test

This function manually changes the output of the Sensor. As a result, it possible to test whether the further process is working as desired. The test is automatically terminated once you leave the test menu. This occurs automatically after no keys have been activated for a period of 10 minutes.

I/O Test	Test of the Senso	Test of the Sensor outputs	
Measured value	Measured value:	Default of a measured value in μ m	
Statusbits	Statusbits:	The number of the status bit to be set can be selected by	
Warm-up		pressing the "+" or "-" button. (see list of Statusbits)	
Signal Strength	Warm-up:	Default of the warm-up on "ok" or "warm-up"	
Temperature	Signal strength:	Default of the signal strength on "ok", "too low" or "too high"	
 Back 	Temperature:	Default of the temperature on "ok", "too low" or "too high"	
📢 Run			

If the Sensor returns to the display view after 30 seconds without pressing the button while the test is still active, this is indicated by a A in the display view.

Number	Function	Description of when the bit is set	Measured value read- out
1	General error	One of the following bits is set.	—
2	Distance to object too small	The current measured value is below the working range.	Measuring range lower limit
3	Distance to object too large	The current measured value is above the working range.	Measuring range upper limit
4	No signal	The sensor does not detect an object within its working range.	Measuring range upper limit
5	Signal too weak	Too little light is reflected back to the sen- sor from the object (e.g. very dark surface). The quality of the measured value is re- duced as a result.	Current measured value
6	Signal too strong	Too much light is reflected back to the sensor from the object (e.g. reflector) The quality of the measured value is reduced as a result.	Current measured value
7	Warm-up procedure	The sensor is currently in the warm-up phase and the quality of the measured value does not yet comply with the speci- fied technical data. See page 5 below.	Current measured value
8	Temperature too high	The sensor is at the upper limit of its tem- perature range. If temperature continues to rise, the sensor may be destroyed.	Current measured value
9	Temperature too low	The sensor is at the lower limit of its tem- perature range. If temperature continues to drop, the sensor may be destroyed.	Current measured value

List of status bits:



6.9. Network

Network	Network parameter settings	
IP address	IP address:	Display of the IP address set.
Subnet mask	Subnet mask:	Display of the Subnet mask set.
Std gateway	Std gateway:	Display of the standard gateway set.
Back		
∢ Run		

6.10. Language

The menu language can be changed in the menu item "Language". The user is automatically prompted for his desired language at initial operation and after each reset.

Language	Set menu language
O Deutsch	The menu appears in the selected language immediately after selection.
O English	
O Francais	
O Espanol	
O Italiano	
 Back 	
📢 Run	

6.11. Info

In the menu item "Info" the following information about the Sensor is displayed:

Info	
Order number	
Software version	
Serial number	

6.12. Reset

All Sensor settings, with the exception of the network settings, can be reset to the default settings in the menu item "Reset. The settings of the default settings can be found in Chapter "5.2. Default Settings" on page 10.

Reset	Reset to the default settings
Press <r> for Reset</r>	The Sensor settings that have been made can be reset to the default settings by pressing the "R" button.

6.13. Password

Password protection prevents against changing the set data unintentionally.

Password	Set passw	ord functionality
Activate	Enable:	Turn password protection on or off. If password protection is acti-
Change		vated, the operation of the Sensor is disabled after supply power
Block		has been interrupted and is only enabled after successfully entering
 Back 		password.
∢ Run	Change:	Change password.
	Lock:	Locking Sensor causes an immediate disabling of operation if activate
		Password is set to "on".

If the password functionality is activated, the password must be entered before each operation of the Sensor. After correctly entering the password by means of the "+" and "-" button, the menu is activated and the Sensor is operational.

- The password functionality is deactivated in the default settings.
- The value range of the password number ranges from 0000...9999

It is necessary to note the newly defined code before changing the password. A forgotten password can only be overwritten by a general password. The general password can be requested by sending an e-mail to **support@wenglor.com**.



7. Information on EtherCAT

You can find the ESI file for download at www.wenglor.com \rightarrow Products \rightarrow Product search (order number).

	Sub			Access	PDO	1	Value	
Index	index	Name	Data Type	right	mapped	Default Settings	range	Description
1000h	00h	Device type	Unsigned 32	Ro	No	00000191h		
1008h	00h	Device name	STRING	Ro	No	OCPxxxP0150C		12 character
1009h	00h	Hardware version	STRING	Ro	No	V1.0.0		6 character
100Ah	00h	Software version	STRING	Ro	No	V1.0.5		6 character
		Store parameters						
1010h	00h	Highest subindex supported	Unsigned 8	Ro	No	1		1
101011	01h	Store all parameters	Unsigned 32	Rw	No	0		65766173h = store any other = don't store
		Restore default parame	ters					
	00h	Highest subindex supported	Unsigned 8	Ro	No	1		1
1011h	01h	Restore all parameters	Unsigned 32	Rw	No	0		64616F6Ch = restore any other = don't rest.
		Identity Object						
	00h	Highest subindex supported	Unsigned 8	Ro	No	4		4
	01h	Vendor ID	Unsigned 32	Ro	No	0000059Bh		
1018h	02h	Product code	Unsigned 32	Ro	No	02011D0xh		OCP662P0150C OCP352P0150C OCP162P0150C OCP801P0150C
	03h	Revision number	Unsigned 32	Ro	No	01000500h		
	04h	Serial number	Unsigned 32	Ro	No	nnnnnnnh		
10F8h		Local time stamp	Unsigned 64	Ro	Optional			
		RxPDO						
1600h	00h	Highest subindex supported	Unsigned 8	W in PreOp, R in Op		0		07 objects
		TxPDO						
	00h	Highest subindex supported	Unsigned 8	W in PreOp, R in Op		2		24 objects
1A00h	01h	SubIndex 001	Unsigned 32	W in PreOp, R in Op		21300020h		
	02h	SubIndex 002	Unsigned 32	W in PreOp, R in Op		24270010h		
1C00h		Sync manager type						



	L	RxPDO assign						
1C12h	00h	Highest subindex supported	Unsigned 8	W in PreOp, R in Op	No	1		0 1
	01h	SubIndex 001	Unsigned 16	W in PreOp, R in Op	No	1600h		
		TxPDO assign						
1C13h	00h	Highest subindex supported	Unsigned 8	W in PreOp, R in Op	No	1		1
	01h	Subindex 001	Unsigned 16	W in PreOp, R in Op	No	1A00h		
1C32h		SM output parameter						
1C33h		SM input parameter						
		Device Access						
	00h	Highest subindex supported	Unsigned 8	Ro	No	2	0 - 254	2
2040h	01h	Webserver Access	BOOL	Rw	No	0: Enabled	0 - 1	0: Enabled 1: Disabled
								0: Enabled
	02h	Key disabling	BOOL	Rw	No	0: Enabled	0 – 1	1: Disabled
		Display settings						
	00h	Highest subindex supported	Unsigned 8	Ro	No	5	0 - 254	5
		01h Display mode	Unsigned 8	Rw	No	0: Process	0 – 3	0: Process 1: Analysis
	01h							2: Text
								3: Network
	02h	Rotate display	BOOL	Rw	No	0: Not rotated	0 – 1	0: Not rotated 1: Rotated
							<u> </u>	0: Minimum
2100h		03h Display intensity		Rw	No	4: Screensaver	0 - 4	1: Normal
	03h		Unsigned 8					2: Maximum
			Ŭ					3: Energy saving mode
								4: Screensaver
	04h	Display language	Unsigned 8	Rw	No	1: English	0 - 4	0: Deutsch 1: English 2: Français 3: Español 4: Italiano
	05h	Display text	STRING	Rw	Optional	-		Displayable text 18 characters



		Measured value settings			-			
	00h	Highest subindex supported	Unsigned 8	Ro	No	6	0 – 254	6
	01h	Laser ON-OFF	Unsigned 8	Rw	Optional	0: Laser ON	0 – 1	0: Laser On 1: Laser Off
	02h	Output rate	Unsigned 8	Bw	Optional	0: normal	0 – 1	0: Normal
	0211		Unsigned 0	nw .	Optional	0. Hormai	0-1	1: Fast
2110h	03h	Filter value	Unsigned 8	Rw	Optional	0: Filter size 1	0 - 6	0: Filter size 1 1: Filter size 2 2: Filter size 5 3: Filter size 10 4: Filter size 20 5: Filter size 50 6: Filter size 100
								0: High resolution
	04h	Resolution	Unsigned 8	Rw	Optional	0: High resolution	0 – 2	1: Medium resolution
								2: Low resolution
	05h	Exposure mode	Unsigned 8	Rw	Optional	2: DCM mode	0 – 3	0: SCM mode 1: LCM mode 2: DCM mode 3: CCM mode
	06h	Exposure time	Unsigned 16	Rw	Optional	1000µs	100 - 8000	Max. exposure time 100 8000 μs
2130h	00h	Measured value	Unsigned 32	Ro	Yes			Distance value
2427h	00h	Status	Unsigned 16	Ro	Yes			 General Object distance too small Object distance too great No signal Contamination Signal too high Warm-up procedure Over-temperature Under-temperature
8000h	00h	Measured value timestamp	Unsigned 64	Ro	Optional			FFFFFFFFFFFFF
		InternalObj2						
2990h	00h	Highest subindex supported	Unsigned 8	Rw	No	2	0 – 254	
	01h	SubIdx1	Unsigned 8	Ro	No			Internal use
	02h	SubIdx2	ARRAY	Rw	No			Internal use
		Physical unit		ı — — —	ı ———			
6131h	00h	Highest subindex supported	Unsigned 8	Ro	No	1	0 – 254	
	01h	Al Instance 1	Unsigned 32	Ro	No	FD010000h		

8. Web-based configuration

The Device is equipped with a web-based set-up interface which operates independent of the operating system. Parameterizing of the Device can conveniently be done using a standard web browser. The web server allows control-independent monitoring or creation of a test environment. The web server allows control-independent monitoring or a test environment to be set up. It is not needed for normal operation on the controller.

NOTE!



Communication via EoE (Ethernet over EtherCAT) is required in order to be able to access the integrated webserver's website. This is only possible via the mailbox communication of a PLC or a PC-based controller software such as TwinCAT[®]. All website settings can be made, if the product is in Pre-OP mode. For information on how to configure the network parameters please refer to the instructions "Start-Up-EtherCAT-Device" (www.wenglor.com \rightarrow Download \rightarrow Operating Instructions \rightarrow Product Search (Order Number) \rightarrow General instructions) in the chapter "Displaying and working with the integrated web server". All further steps require an active mailbox and network communication. When operated with a controller, settings which have been changed via the website are overwritten by the controller or changes are only possible in the pre-op mode.

Call up the Administration Interface

Launch a web browser. Enter the preset IP address of the Device in the address bar of your browser and press enter To ensure that the browser displays the current website settings, the website in question must always be refreshed automatically in case of change. This setting must be changed browser-specific and is demonstrated here by means of Internet Explorer as an example. Under Extras \rightarrow Internet Options \rightarrow Browsing history \rightarrow Settings the selection should be set to Every time I visit the webpage. Otherwise, any changes to the home-page might be displayed incorrectly.





rnet Options	8 ×
eneral Security Privacy Content Connections Pro	ograms Advanced
Home page	
To create home page tabs, type each address	s on its own line.
http://www.wenglor.com/	
	T
Use current Use default	Use blank
Browsing history	
Delete temporary files, history, cookies, saved and web form information.	d passwords,
Delete	Settings
Search	
Change search defaults.	Settings
	8
Tabs	
Change how webpages are displayed in tabs.	Settings
Colors Languages Fonts OK Car	Internet Explorer stores copies of webpages, images, and media for faster viewing later. Check for newer versions of stored pages: © Every time I visit the webpage © Every time I start Internet Explorer © Automatically © Never
	Disk space to use (8-1024MB) 50
	Current location:
	C:\Users\wenglor\AppData\Local\Microsoft\Windows\Temporary Internet Files\
	Move folder View objects View files
	History
	Specify how many days Internet Explorer should save the list of websites you have visited.
	Days to keep pages in history: 20
	OK Cancel



In order to now be able to open the website of the Device (in the example ZAC50CN01), the IP address must be entered in the address bar of the browser as described

Example: 192.168.100.1 (IP address set, for example, via TwinCAT® in the area EoE of the Device)



The overview page **Device General** is not password-protected. If the pages of the device or port settings are accessed, a password prompt appears.

The following user data are preset in the delivery state:

User name: admin Password: admin

The password can be changed on the page Device Settings.

Note:

Permanent storage of the password only via object 1010h (store parameters) in the controller.



8.1. Page layout



The website is divided into the following 4 areas:

- 1. Language selection: The website can be changed from English (default setting) to German, French, Spanish or Italian via the language selection.
- 2. Display: On each page, the current display is represented exactly like on the device itself.

3. Category selection: The web-based settings are divided into four categories:

- Device general: Overview page with general information about the device
- · Device settings: Network and display settings of the device
- Measured value settings: Settings for influencing the measured value of the device
- Device Test: Manual change of the Sensor output in order to test the process
- 4. Page content: Depending on which category is selected, the relevant page content is displayed.



8.2. Device general



Sensors for your success



English

-

After establishing the connection, the overview page "Device general" is displayed.



-

English

8.3. Device Settings



Sensors for your success

Seneral device	Device settings		OCP662P0150C
Device settings Measured value settings	Network Settings		$\bigcirc \bigcirc \bigcirc \bigcirc$
Device test	IP-address	192.168.100.10	
	Subnet mask	255.255.255.0	
	Standard gateway	0.0.0	78.84 mm
	Display settings Language	English 🔻	
		English -	
	Rotate display	OFF -	
	Display intensity	Screensaver -	
	Display mode	Process -	

Network Settings

Display of network settings

Display Settings

For functional description of display settings see chapter "6.2. Display" on page 13.

Change password:

Password Change

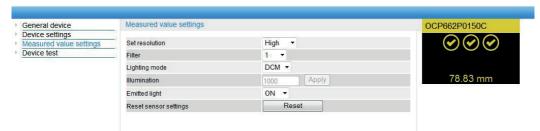
An additional window opens, in which the new password can be entered.

Note: If the password is forgotten, it's only possible to return the device to its default settings by means of a reset at the controller.

8.4. Measured Value Settings



Sensors for your success



English

-

Resolution

For functional description of resolution see chapter "6.3. Resolution" on page 14.

Filter

For functional description of filter see chapter "6.4. Filter" on page 14.

Exposure

For functional description of exposure see chapter "6.5. Exposure" on page 15.

Emitted Light

For functional description of transmitted light see chapter "6.7. Laser" on page 15.

Sensor Settings Reset

In the event of a reset, the display settings are returned to their default values.

Note: Measured value settings are not reset in this case!



-

English

8.5. Device Test



Sensors for your success

General device	Device test	OCP662P0150C	
Device settings Measured value settings	Simulation of		
Device test	Measured Value	100000 µm Apply	
	Warmup	Off 👻	
	Signal	Too low 🔻	100.00 mm
	Temperature	Off 👻	Remaining test mode time 9.5
	Test mode	Switch off Remaining test mode time 9.55 min	min

For functional description of device test see chapter "6.8. I/O Test" on page 16.

The test is activated as soon as at least one parameter is changed.

The length of the test is limited to 10 minutes. Afterwards, the test is terminated automatically. The remaining time of the test is displayed under the button "Switch off" and below the display window. The test can also be terminated prematurely by clicking on "Switch off".

Note: Settings are retained in the online state as well.

9. Maintenance Instructions

- This wenglor Sensor is maintenance-free.
- It is recommended to clean the lens and the display regularly and to check the socket connections.
- Do not use any solvents or cleaning agents to clean the Sensor, which could damage the device.

10. Proper Disposal

wenglor sensoric GmbH does not take back unusable or irreparable products. When disposing of the products, the relevant national regulations for waste disposal apply.

11. EU Declaration of Conformity

The EU declaration of conformity can be found on our website at www.wenglor.com in download area.