

**PERSPECTO®**

**Your Automation Insight**



**WAGO®**

# PERSPECTO® – Monitors and Panels

## Perfect Integration into the WAGO-I/O-SYSTEM

PERSPECTO® is WAGO's comprehensive monitor and panel system for operating and monitoring process data for machines, systems and control technology.

### **PERSPECTO® is optimized**

The WAGO-I/O-SYSTEM and PERSPECTO® are ideally suited to one another. Both system components guarantee smooth, trouble-free communication with a controller or the system's IPC.

### **PERSPECTO® is fast**

Enhanced runtime systems and programs provide consistently high performance.

### **PERSPECTO® is flexible**

Available for a variety of sizes as a Web, visualization or automation panel model, PERSPECTO® provides solutions to suit any customer need.

### **PERSPECTO® is adaptable**

Customer-driven designs and reconfigurable displays enable PERSPECTO® monitors and panels to seamlessly integrate into virtually any application.

## Clearly in View & Clearly in Control

### Clear Advantages

- Compatible with the WAGO-I/O-SYSTEM
- Expert support
- Short boot time
- High computing power
- Outstanding energy efficiency
- Monitor sizes from 3.5" to 15"
- Flat design
- Multiple interfaces
- Optional IEC-61131-compatible control functionality



## PERSPECTO® CP

with Target Visualization

Control panel with HMI runtime  
and CODESYS for independent automation

## PERSPECTO® WP

Web panel for controllers  
with a Web server.



*perfect integration*

The WAGO software package for  
creating visualization and control  
applications



# PERSPECTO® WP

for Devices with Web Server

## Web Panel

Specifically configured as a Web client, **PERSPECTO® WP Web Panel** directly connects to controllers with their own Web servers.

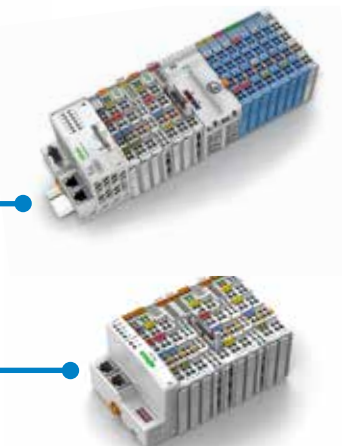
The CODESYS 2.3 Web visualization has been streamlined and is accessible from an Internet browser, in which a "Java virtual machine" provides an environment for the CODESYS Java applet.

### Advanced Features of Web Panels:

- Safety via full-screen mode: no unauthorized access to system programs and settings
- Panel configuration software (PACO) for device parameterization



ETHERNET



### PERSPECTO® WP

is available in the following screen sizes:

#### WP 35 QVGA – 3.5"

320 x 240 pixels

Item No. 762-1035

#### WP 57 QVGA – 5.7"

320 x 240 pixels

Item No. 762-1057

#### WP 104 VGA – 10.4"

640 x 480 pixels

Item No. 762-1104

#### WP 121 SVGA – 12.1"

800 x 600 pixels

Item No. 762-1121

# PERSPECTO® CP with Target Visualization

for Complete CODESYS Projects

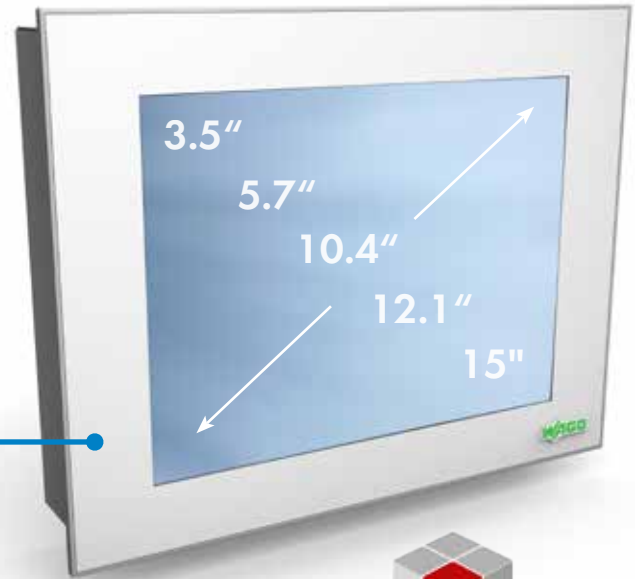
## Control Panel

The Control Panel (CP) with Target Visualization (TV) features full CODESYS runtime. The CODESYS development environment allows full application programming in CODESYS. Existing projects may be almost entirely converted and upgraded.

Standard CODESYS libraries provide great compatibility and advanced solutions.

### Advanced Features of Control Panels with Target Visualization:

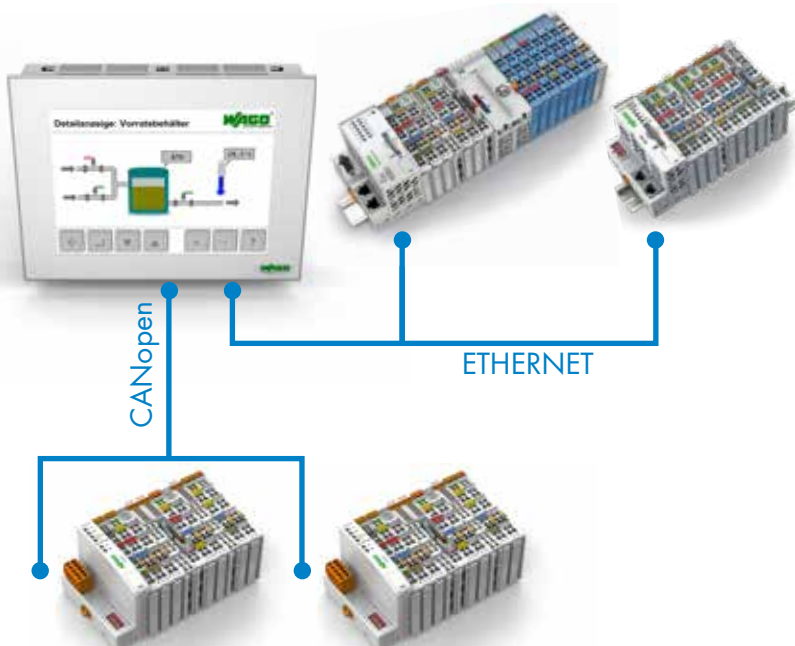
- Table, histogram, bar chart, meter instrument
- Reference to other visualizations
- Place holder concept for generating complex, graphical elements
- Programmed visualization expressions
- Animation (depending on element type)
- Automatic scaling
- Rotation
- Offset individual edges of an object
- Language switching
- Tool tips for all elements







### PERSPECTO® CP

is available in the following screen sizes:

- CP 35 QVGA TV – 3.5"  
320 x 240 pixels  
Item No. 762-3035/000-001
- CP 57 QVGA TV – 5.7"  
320 x 240 pixels  
Item No. 762-3057/000-001
- CP 104 VGA TV – 10.4"  
640 x 480 pixels  
Item No. 762-3104/000-001
- CP 121 SVGA TV – 12.1"  
800 x 600 pixels  
Item No. 762-3121/000-001
- CP 150 XGA TV – 15"  
1024 x 768 pixels  
Item No. 762-3150/000-001  
or additionally with CAN  
Item No. 762-3150/000-003



# PERSPECTO® – All Data and Sizes

	WP (Web Panel)				CP (Control Panel)	
Screen diagonal (in inches)	3.5"	5.7"	10.4"	12.1"	3.5"	5.7"
Screen diagonal (in centimeters)	8.9	14.5	26.4	30.7	8.9	14.5
Display	TFT					
Display colors	262000	262000	65536	65536	262000	262000
Screen resolution (in pixels)	320 x 240	320 x 240	640 x 480	800 x 600	320 x 240	320 x 240
Contrast ratio	800 : 1	500 : 1	500 : 1	500 : 1	800 : 1	500 : 1
Brightness (in cd/m <sup>2</sup> )	560	400	430	400	560	400
MTBF display lighting (in hrs)	50.000					
Operating system	Windows CE 6.0		Windows CE 5.0		Windows CE 6.0	
Processor	32-bit ARM9 200 MHz		32-bit XScale 520 MHz		32-bit ARM9 200 MHz	
RAM/Flash/SRAM (in MB)	64/64/1	64/64/1	64/64/1	64/64/1	64/64/1	64/64/1
Program memory (in KB)					1024	1024
Data memory (in KB)					1024	1024
Non-volatile memory (retain) (in KB)					128	128
Memory expansion (max. 2 GB)	MicroSD card	SD card	CF card	CF card	MicroSD card	SD card
Panel	Touch screen (analog, resistive)				Touch screen (analog, resistive)	
Light transmission	typ. 80 %	typ. 75 %	typ. 80 %	typ. 80 %	typ. 80 %	typ. 75 %
Durability (activations with finger or touch pen)	100.000	100.000	10 million	10 million	100.000	100.000
USB 2.0 Host (Type A)	1 x	2 x	2 x	2 x	1 x	2 x
USB Device (Type B)	-	-	-	-	-	-
Interfaces (DVI/VGA)	-	-	-	-	-	-
Display setting	-	-	-	-	-	-
Interface (ETHERNET)	1 x 10/100 Mbit RJ-45					
Interface CAN RJ-45	-	-	-	-	1 x	1 x
CAN 1 D-Sub 9 interface						
Interface (serial, RS-485)					1 x	-
Interface (serial, RS-232, D-Sub 9)					-	1 x
Interface (serial, RS-232 + RS-485 D-Sub)					-	1 x
Interface (serial, RS-232 + RS-485/-422, D-Sub)					-	-
Power supply	24 VDC (18 V ... 30 V)					
Max. input current (24 V)	500 mA	500 mA	500 mA	500 mA	500 mA	500 mA
Operating power	8 W ... 12 W	8 W ... 12 W	10 W ... 18 W	10 ... 18 W	8 W ... 12 W	8 W ... 12 W
Operating temperature	0 °C ... +55 °C		0 °C ... +50 °C		0 °C ... +55 °C	
Storage temperature	-10 °C ... +60 °C					
Relative humidity (without condensation)	10 % ... 85 %					
Dimensions (W x H x D in mm)	96x96x29	208x150x42	284x222x46	330x268x47	96x96x29	208x150x42
Panel cutout (W x H in mm)	91x91	198x140	268x206	312x250	91x91	198x140
Degree of protection	Front IP65, back IP20					
Approvals	CE  		CE		CE  	



## Available in the following sizes:



### 3.5 " (8.9 cm)

Viewing angle, horizontal/vertical: -60° ... 60° / -60° ... 45°  
 Front panel: Plastic, polyester film  
 Housing material: Plastic  
 Mounting: 2 x clamping elements  
 Weight: approx. 170 g



### 5.7 " (14.5 cm)

Viewing angle, horizontal/vertical: -70° ... 70° / -60° ... 70°  
 Front panel: Plastic, polyester film  
 Housing material: Plastic  
 Mounting: 4 x clamping elements  
 Weight: 630 g



### 10.4 " (26.4 cm)

Viewing angle, horizontal/vertical: -65° ... 65° / -45° ... 65°  
 Front panel: Anodized aluminum, natural, polyester film  
 Housing material: Sheet steel, painted  
 Mounting: 6 x clamping elements  
 Weight: 2100 g



### 12.1 " (30.7 cm)

Viewing angle, horizontal/vertical: -65° ... 65° / -75° ... 45°  
 Front panel: Anodized aluminum, natural, polyester film  
 Housing material: Sheet steel, painted  
 Mounting: 6 x clamping elements  
 Weight: 2600 g

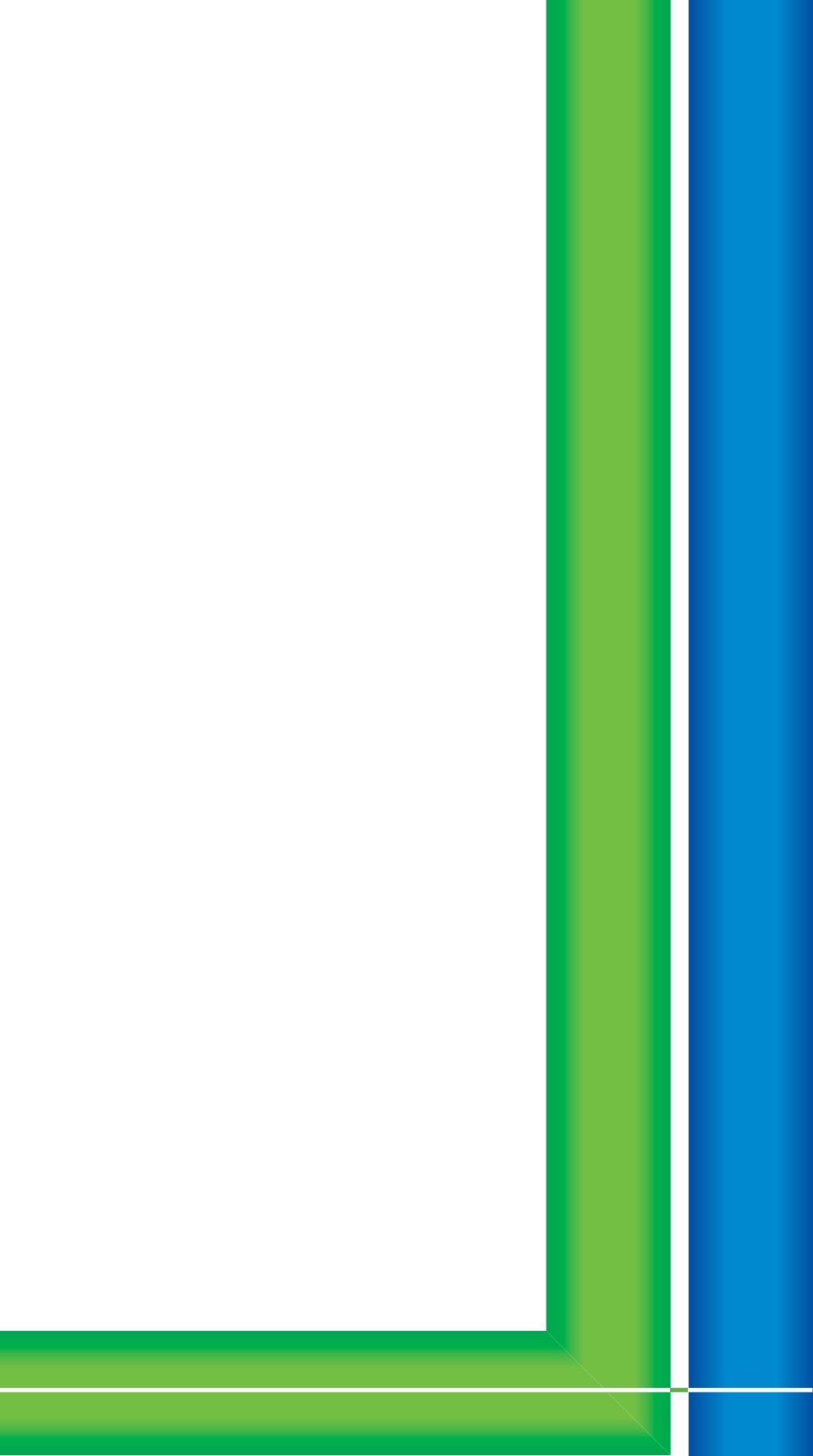


### 15 " (38.1 cm)

Viewing angle, horizontal/vertical: -65° ... 65° / -75° ... 45°  
 Front panel: Anodized aluminum, natural, polyester film  
 Housing material: Sheet steel, painted  
 Mounting: 6 x clamping elements  
 Weight: 4500 g

## Panel) with Target Visualization

10.4"	12.1"	15"
26.4	30.7	38.1
TFT		
65536	65536	16 million
640 x 480	800 x 600	1024 x 768
500 : 1	500 : 1	500 : 1
430	400	250
50.000		
Windows CE 5.0		Windows CE 6.0
32-bit XScale 520 MHz		Intel Atom® N270; 1.6 GHz
64/64/1	64/64/1	256/128/-
1024	1024	1024
1024	1024	1024
128	128	128
CF card	CF card	CF card
Touch screen (analog, resistive)		
typ. 80 %	typ. 80 %	typ. 80 %
10 million	10 million	35 million
2 x	2 x	4 x
-	-	-
-	-	-
-	-	-
1 x 10/100 Mbit RJ-45		
1 x	1 x	-
1 x	1 x	optional
-	-	-
1 x	1 x	1 x
1 x	1 x	1 x
1 x	1 x	1 x
24 VDC (18 V ... 30 V)		
500 mA	500 mA	1300 mA
10 W ... 18 W	10 W ... 18 W	28 W ... 35 W
0°C ... +50 °C		0°C ... +45 °C
-10 °C ... +60 °C		
10 % ... 85 %		
284x222x46	330x268x47	398x306x77
268x206	312x250	383x291
Front IP65, back IP20		
CE		



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