

Pressure controller Modular version Model CPC6050



WIKA data sheet CT 27.62



for further approvals see
page 4

Applications

- Healthcare and avionics industry
- Industry (laboratory, workshop and production)
- Transmitter and pressure gauge manufacturers
- Calibration service companies and service industry
- Research and development laboratories

Special features

- Pressure ranges: -1 ... 210 bar [-15 ... 3,045 psi]
- Control speed 15 s
- Control stability < 0.003 % FS
- Accuracy to 0.01 % IS (IntelliScale)
- Precision 0.004 % FS



Pressure controller, modular version, model CPC6050

Description

Design

The highly configurable model CPC6050 modular pressure controller offers maximum flexibility to best suit the customers' requirements. The instrument can have up to two independent pressure regulating channels which can operate simultaneously. Each channel can have up to two sensors. The instrument can also have an optional barometric reference for gauge or absolute pressure emulation. This instrument can be specified as a desktop or as 19" rack-mounting kit.

Application

The controller offers many applications within calibration laboratories and production environments because of its pressure range -1 ... 210 bar [-15 ... 3,045 psi] and accuracy down to 0.01 % IS-50.

Its ability to control minimum pressures such as 25 mbar [10 inH₂O] with a high stability makes it the ideal calibration and verification solution for healthcare and aerospace industries.

Simultaneous calibration channels along with interchangeable plug-and-play pressure sensors and an intuitive GUI makes CPC6050 an easy-to-use and low-maintenance instrument.

Functionality

The touchscreen, along with an intuitive user interface, provide maximum ease-of-use. The large number of menu languages add to its operability. In addition to specifying a certain pressure set point either by entering it via touchscreen or sending it via remote interface, the pressure can be changed in defined, programmable step sizes by using the STEP buttons. Moreover, the user can also easily create extensive test programs using the instrument menu. Depending on the application, the rate of control can be either pre-set precision, high speed or a user-defined variable rate.

Software

The WIKA-Cal calibration software enables the convenient calibration of pressure measuring instruments and the generation of test certificates. Additionally, the instrument can also be remotely controlled using the serial command formats, the Mentor standard, SCPI or further optional command sets are available.

Complete test and calibration systems

On request, complete mobile or stationary test systems can be manufactured. There is an IEEE-488.2, RS-232, USB and an Ethernet interface for communication with other instruments, and thus the instrument can be integrated into existing systems.

Backward compatibility

The highly configurable CPC6050 can also be used with model CPR6000 pressure sensors of its predecessor model CPC6000. The CPR6000 sensors can be used individually or together with the CPR6050, hence providing the user a complete backward capability.

Specifications Model CPC6050

Reference pressure sensors model CPR6050		
Pressure range	Standard	Optional
Accuracy ¹⁾	0.01 % FS ²⁾	0.01 % IS-50 ³⁾
Gauge pressure ⁴⁾	0 ... 0.025 to 0 ... 210 bar 0 ... 0.36 to 0 ... 3,045 psi	0 ... 1 to 0 ... 210 bar 0 ... 15 to 0 ... 3,045 psi
Bidirectional pressure ⁴⁾	-0.012 ... 0.012 to -1 ... 210 bar -0.18 ... 0.18 to -15 ... 3,045 psi	-1 ... 10 to -1 ... 210 bar -15 ... 145 to -15 ... 3,045 psi
Absolute pressure ⁵⁾	0 ... 0.5 to 0 ... 211 bar abs. 0 ... 7.5 to 0 ... 3,060 psi abs.	0 ... 1 to 0 ... 211 bar abs. 0 ... 15 to 0 ... 3,060 psi abs.
Precision ⁶⁾	0.004 % FS	0.004 % FS
Calibration interval	365 days ⁷⁾	365 days
Optional barometric reference		
Function	The barometric reference can be used to switch pressure types ⁸⁾ , absolute <=> gauge. With gauge pressure sensors, the measuring range of the sensors must begin with -1 bar [-15 psi] in order to carry out an absolute pressure emulation.	
Measuring range	552 ... 1,172 mbar abs. [8 ... 17 psi abs.]	
Accuracy ¹⁾	0.01 % of reading	
Pressure units	39 and two freely programmable	

1) It is defined by the total measurement uncertainty, which is expressed with the coverage factor ($k = 2$) and includes the following factors: the intrinsic performance of the instrument, the measurement uncertainty of the reference instrument, long-term stability, influence of ambient conditions, drift and temperature effects over the compensated range during a periodic zero point correction every 30 days.

2) FS = Full span = end of measuring range - start of measuring range

3) 0.01 % IS-50 accuracy: Between 0 ... 50 % of the full scale, the accuracy is 0.01 % of the half full scale and between 50 ... 100 % of the full scale, the accuracy is 0.01 % of reading.

4) For pressure ranges from $\geq 100 \dots \leq 138$ bar [$\geq 1,500 \dots \leq 2,000$ psi] gauge will be sealed gauge sensor.

5) The minimum calibrated range of absolute sensor(s) is 600 mTorr.

6) It is defined as the combined effects of linearity, repeatability and hysteresis throughout the stated compensated temperature range.

7) 180 days for pressure ranges below 1 bar [15 psi] gauge or absolute and -1 ... +1 bar [-15 ... +14.5 psi] bidirectional. 365 days for remaining of the specified ranges.

8) For a pressure type emulation, we recommend a native absolute pressure sensor, since the zero point drift can be eliminated through a zero point adjustment.

Base instrument

Instrument	
Instrument version	■ Desktop case ■ 19" rack-mounting kit
Dimensions	see technical drawings
Weight	approx. 22.7 kg [50 lbs] incl. all internal options
Warm-up time	approx. 15 min

Base instrument		
Display		
Screen	8.9" colour LC display with resistive touchscreen	
Resolution	4 ... 6 digits depending on range and units	
Connections		
Pressure connections	up to 8 ports with 7/16"- 20 F SAE, up to 2 ports with 1/8" F NPT and 1 port with 10-32 UNF female	
Filter elements	All pressure ports have 40-micron filters.	
Pressure adapters	<ul style="list-style-type: none"> ■ Without ■ 6 mm tube fitting, 1/4" tube fitting, 1/4" female NPT fittings, 1/8" female NPT fittings or 1/8" female BSP fittings 	
Barometer port adapters	<ul style="list-style-type: none"> ■ Barb fitting ■ 6 mm tube fitting, 1/4" tube fitting 	
Wetted parts	Aluminium, brass, 316 and 316L stainless steel, Buna N, FKM/FPM, PCTFE, PEEK, PTFE, PPS, glass-filled epoxy, RTV, ceramic, silicone, silicone grease, urethane	
Permissible media	Dry, clean air or nitrogen (ISO 8573-1:2010 class 5.5.4 or better)	
Overpressure protection	Safety relief valve fixed to reference pressure sensor and adjusted to specific customised measuring range	
Permissible pressure		
Supply port	110 % FS or 0.69 bar [10 psi], whichever is greater	
Measure/Control port	max. 105 % FS	
Voltage supply		
Power supply	AC 100 ... 120 V, 50/60 Hz AC 220 ... 240 V, 50/60 Hz	
Power consumption	max. 210 VA	
Permissible ambient conditions		
Storage temperature	-20 ... 70 °C [-4 ... +158 °F]	
Humidity	5 ... 95 % r. h. (non-condensing)	
Compensated temperature range	15 ... 45 °C [59 ... 113 °F]	
Mounting position	horizontal	
Control parameter	SVR module ⁹⁾	LPPump module
Control stability	< 0.003 % FS of the active range (typical 0.001 % FS ¹⁰⁾)	
Control mode	precision, high speed and customised	external supply on/off
Control speed	15 s ¹¹⁾	25 s ¹¹⁾
Control range	0 ... 100 % FS	
Minimum control pressure	0.0017 bar [0.025 psi] over exhaust pressure or 0.05 % FS whichever is greater	0.0034 bar [0.05 psi] over exhaust pressure or 0.05 % FS whichever is greater
Overshoots	< 1 % FS in high-speed control mode (typical < 0.05 % FS in precision control mode)	< 1 % FS in high-speed control mode (< 0.1 % FS in pump only mode)
Test volume	50 ... 1,000 ccm	50 ... 300 ccm
Communication		
Interface	Ethernet, IEEE-488, USB, RS-232	
Command sets	Mensor, WIKA SCPI, others optional	
Response time	approx. 100 ms	
Internal program	up to 24 sequences with up to 99 steps each	

9) Represents LPSVR, MPSVR, HPSVR and EPSVR

10) Typical stability achieved 10 seconds after the stable indication, when controlling on pressure above atm.

11) Regarding a 10 % FS pressure increase in a 50 ml test volume, in high-speed control mode (SVR) or external supply on (LPPump)

Approvals

Approvals included in the scope of delivery

Logo	Description	Country
	EU declaration of conformity	European Union
	EMC directive ¹⁾ EN 61326-1 emission (group 1, class A) and interference immunity (industrial application)	
	Low voltage directive	
	RoHS directive	

1) **Warning!** This is class A equipment for emissions and is intended for use in industrial environments. In other environments, e.g. residential or commercial installations, it can interfere with other equipment under certain conditions. In such circumstances the operator is expected to take the appropriate measures.

Optional approvals

Logo	Description	Country
	EAC	Eurasian Economic Community
	EMC directive	
	Low voltage directive	
	GOST Metrology, measurement technology	Russia
-	ROSSTANDARD Metrology, measurement technology	Russia
	KazInMetr Metrology, measurement technology	Kazakhstan
-	MTSCHS Permission for commissioning	Kazakhstan
	BelGIM Metrology, measurement technology	Belarus
	Uzstandard Metrology, measurement technology	Uzbekistan

Certificates

Certificate	
Calibration ²⁾	<ul style="list-style-type: none"> ■ Without ■ A2LA calibration certificate (standard on factory) (traceable and accredited in accordance with ISO/IEC 17025) ■ DKD/DAkkS calibration certificate for barometric reference (traceable and accredited in accordance with ISO/IEC 17025)
Recommended recalibration interval	1 year (dependent on conditions of use)

2) Calibration in a horizontal position / operating position.

Approvals and certificates, see website

Working ranges of the controller modules

Bidirectional or gauge pressure (bar [psi]) ¹⁾

-1 [-15]	0	1 [15]	3.4 [50]	10 [150]	100 [1,500]	210 [3,045]
LPPump MODULE ± 12.5 mbar [± 0.18 psi] ²⁾						
LPSVR MODULE ± 12.5 mbar [± 0.18 psi] ²⁾						
MPSVR MODULE ± 0.35 bar [± 5 psi] ²⁾						
HPSVR MODULE -1 ... 5 bar [-15 ... +75 psi] ²⁾						
EPSVR MODULE -1 ... 10 bar [-15 ... +150 psi] ²⁾						

Absolute pressure (bar [psi]) ¹⁾

0	2 [30]	4.4 [60]	11 [165]	101 [1,515]	211 [3,060]
LPPump MODULE 0 ... 0.5 bar [0 ... 7.5 psi] ²⁾					
LPSVR MODULE 0 ... 0.5 bar [0 ... 7.5 psi] ²⁾					
MPSVR MODULE 0 ... 1 bar [0 ... 15 psi] ²⁾					
HPSVR MODULE 0 ... 6 bar [0 ... 90 psi] ²⁾					
EPSVR MODULE 0 ... 11 bar [0 ... 165 psi] ²⁾					

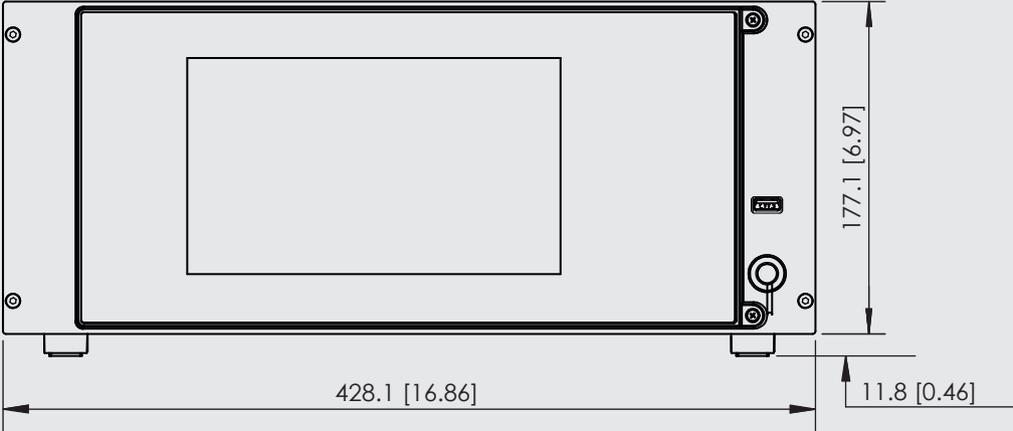
- 1) Mixing of absolute pressure and gauge pressure sensors in a module is not possible.
 2) Smallest recommendable sensor range

For controlling absolute pressure a vacuum pump connected at the supply low port is required.

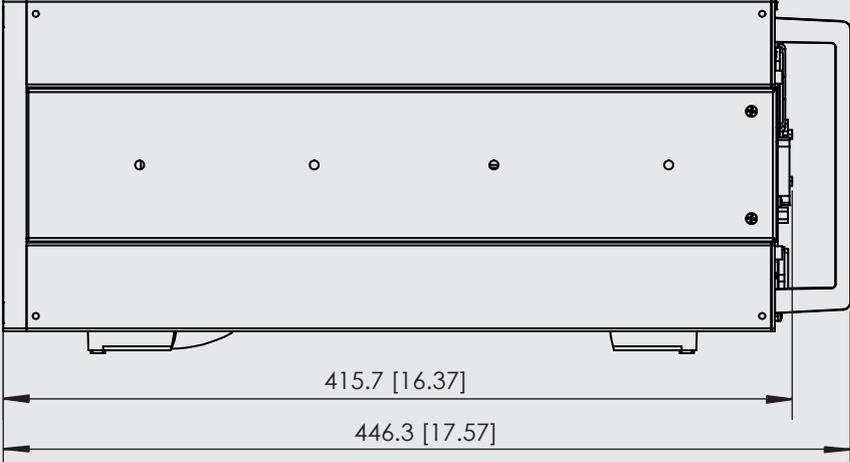
Dimensions in mm [in]

Desktop case

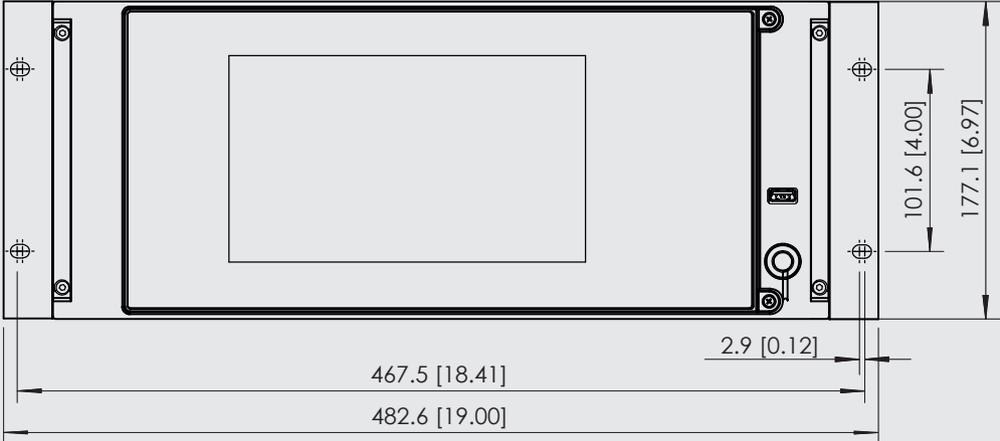
Front view



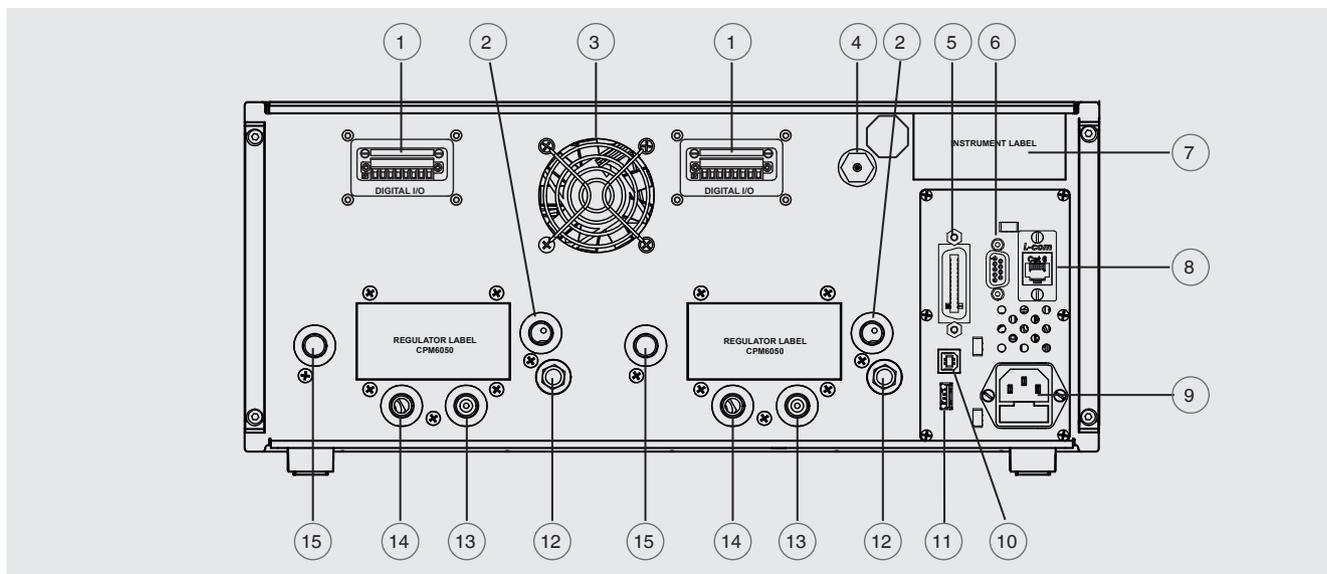
Side view (left)



19" rack-mounting kit with side panels, front view



Electrical and pressure connections - rear view



- | | |
|---|---|
| ① Digital I/O or automatic CPS connector | ⑩ USB interface (instrument) for remote communication |
| ② Exhaust port (7/16-20 UNF) | ⑪ USB interface (host) for service |
| ③ Fan | ⑫ Vent (ATM) |
| ④ Connection barometric reference (10-32 UNF) | ⑬ Reference port (7/16-20 UNF) |
| ⑤ IEEE-488 interface | ⑭ Measure/Control port (7/16-20 UNF) |
| ⑥ RS-232 interface | ⑮ Supply port (7/16-20 UNF) |
| ⑦ Instrument label | |
| ⑧ Ethernet port | |
| ⑨ Power supply | |

Modular design of the CPC6050

Up to two independent control channels

The model CPC6050 provides a high degree of flexibility by having two independent channels of operation within one instrument. This enables the user to perform two separate calibrations at the same time. The user can also perform delta function on the two channels to see the differential pressure. Each channel is equipped with its own pressure module and up to two pressure sensors.

The CPC6050 offers two different types of pressure modules, SVR module and LPPump module. The SVR modules are based on a special solenoid valve regulation technology and provide precise control over the set pressure. These pressure modules are available in four different variations depending on the pressure range. The innovative low-pressure pump module (LPPump) allows pressure generation and control of very low pressures without the need of any external pressure source, thus making CPC6050 a complete solution.

Up to four pressure sensors

Each independent channel can contain up to two internal pressure sensors and utilise the instrument's removable barometric reference for pressure mode emulation. Each sensor contains its calibration, characterisation and communication functions and information. Each channel can be equipped either with two gauge or two absolute pressure sensors, thus providing the user a control range turndown of 20:1 per channel of the instrument.

An optional calibration kit is available to calibrate the pressure sensors externally.

Auto-channelling and auto-ranging capability

The model CPC6050 modular pressure controller is capable of automatically selecting the sensor within a channel depending on the user's pressure set point. The transition between sensors is automatic and seamless without any interruption in the user's application.

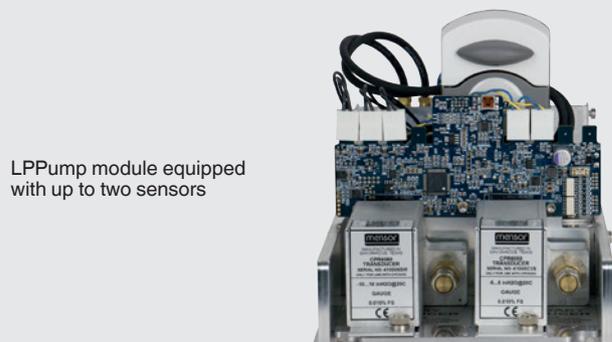
Additionally the CPC6050 is also available as a single output option, thus allowing the user to access the two channels of the instrument together as a single output. The transition between the two channels is automatic and provides the user a very stable control over a wide dynamic pressure range. The maximum control range turndown is as high as 400:1 between the full scale value of the lowest and highest sensor.

Extremely easy to maintain

The modular design of the CPC6050 provides easy access and quick replacement of pressure sensors. The sensors can be replaced by opening the front panel in just 30 seconds and the control channels can be replaced in less than 5 minutes. These features make the instrument very easy to service and repair with least possible downtime to the user.



SVR pressure module equipped with up to two sensors



LPPump module equipped with up to two sensors

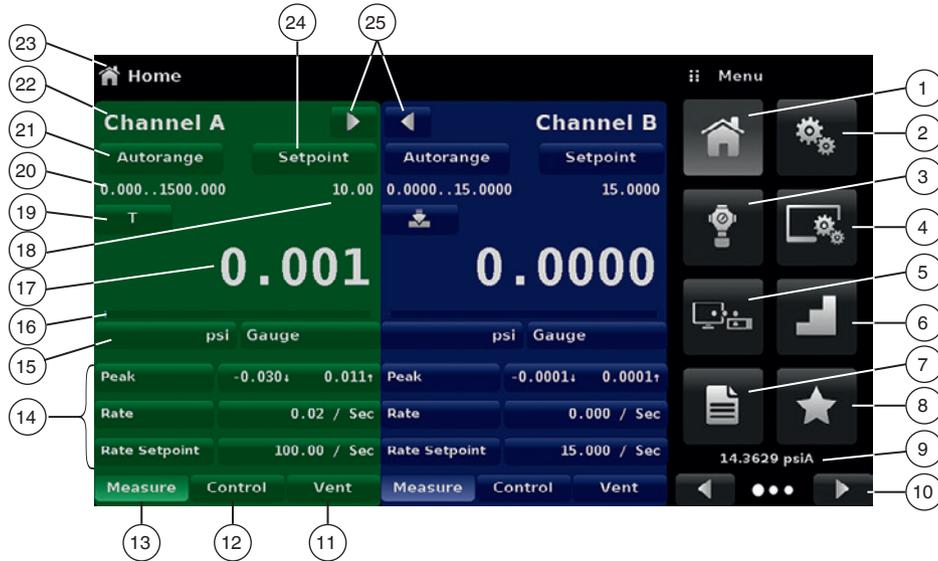


Modular design of the hardware

Easy operation via touchscreen

Shortly after power-up, the standard home screen (see following picture) is displayed. In this menu screen, one can switch between the operating modes using the buttons **MEASURE**, **CONTROL** and **VENT** at the bottom of the screen.

Standard desktop / home screen



- ① Home application
- ② General settings
- ③ Control settings
- ④ Display settings
- ⑤ Remote settings
- ⑥ Step settings
- ⑦ Sequences or programm routines settings
- ⑧ Favourites
- ⑨ Barometric pressure reading (optional)
- ⑩ Navigation within the menu
- ⑪ **VENT**
Immediately vents the system, including the test assembly connected to the Measure/Control port, to atmosphere.
- ⑫ **CONTROL**
In control mode the instrument provides a highly accurate pressure at the Measure/Control port of the respective channel in accordance with the desired set point.
- ⑬ **MEASURE**
In measure mode, the pressure present at the Measure/Control port is measured with high accuracy (if you switch directly from **CONTROL** to **MEASURE** mode, the last controlled pressure in the connected test assembly will be maintained/locked). Temperature changes or external leakage may impact the pressure reading in this state.
- ⑭ Auxiliary displays with either uncertainty, pressure mode, peak, rate or alternate units
- ⑮ Current pressure unit and mode
- ⑯ Optional bar graph
- ⑰ Current measuring value
- ⑱ Entered set point
- ⑲ Zero/tare function
- ⑳ Pressure range of the sensors
- ㉑ Selection of the active sensor or auto-range
- ㉒ Active channel
- ㉓ Current application name
- ㉔ Set-point selection
- ㉕ Screen collapse/expand

Additional features of the CPC6050

Leak testing

The modular pressure controller CPC6050 is capable of performing pressure leak tests on an instrument or system with a dedicated leak test menu. The menu allows the user to set dwell parameters to monitor the pressure prior to the leak detection, the maximum allowed change in pressure during the test and the pressure value at which the test is run. The leak test indicates a pass (green) or fail (red) after the test is completed.

- ① Channel selection
- ② Results display
- ③ Delay prior to leak test
- ④ Time for monitoring leak



- ⑤ Maximum pressure change
- ⑥ Leak test point
- ⑦ Leak test start

Burst testing

The CPC6050 is capable of simulate, measuring and detecting pressure bursts for various applications like rupture disk testing, overpressure testing and pneumatic pipe testing. The instrument requires the user to enter pressure points slightly higher and lower than the burst pressure along with a threshold rate to detect the burst. The CPC6050 also provides a means to set the rate of pressure control both prior to and during the burst window.

- ① Channel selection
- ② Burst test result - pass / fail
- ③ Threshold burst rate
- ④ Pressure higher than burst



- ⑤ Pressure lower than burst
- ⑥ Rate of control until low point
- ⑦ Rate of control between low and high point
- ⑧ Burst test start

Switch testing (simulate or measure)

The CPC6050 has the ability to actuate and de-actuate pressure switches using the optional digital I/O connection. The CPC6050 provides an option of connecting up to three switches per channel. The user is asked to enter a pressure range (high point and low point) between which the switch is expected to be actuated, along with the rate of pressure control prior to and during the switching window. After finishing the switch test, the pressure switching value is recorded.

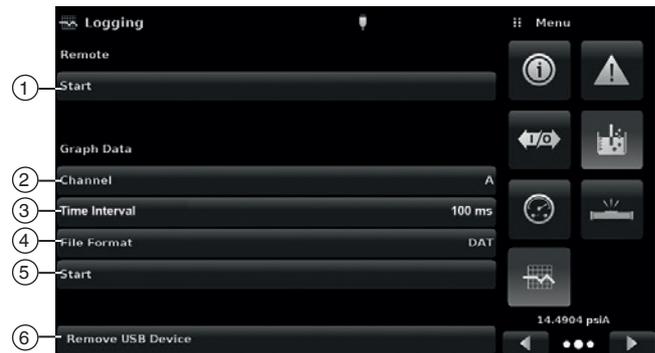
- ① Channel selection
- ② Switch test results
- ③ Higher pressure than switch actuation
- ④ Lower pressure than switch actuation



- ⑤ Rate of control until low point
- ⑥ Rate of control between low and high point
- ⑦ Switch test start

Logging application

The CPC6050 can record both remote commands as well as pressure information within the logging application. Using a USB stick, the remote feature will allow for logging of all sent/received remote commands. Additionally, the graph data logger tracks the pressure and time interval and saves the data as a CSV or txt file on the USB drive. This data can help provide quick troubleshooting assistance to keep the CPC6050 running smoothly.



- 1 Start remote logging
- 2 Select graph data channel
- 3 Time interval for recording
- 4 Graph file format selection

- 5 Start graph data logging
- 6 Remove USB device

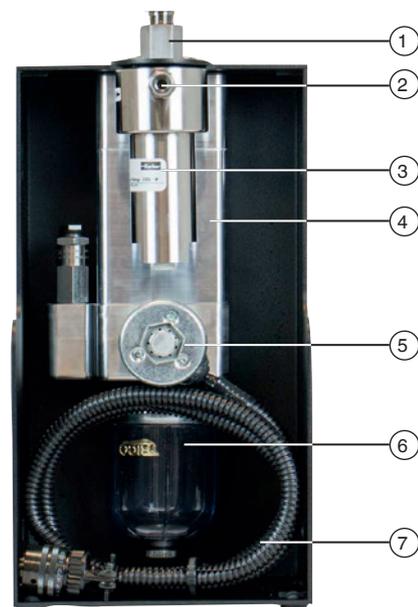
Automatic Contamination Prevention System (A-CPS)

Active decontamination

The **Automatic Contamination Prevention System**, or A-CPS, is an accessory to the CPC6050 modular pressure controller that prevents particles, water or oil contaminants from entering the instrument through the test item. The A-CPS primarily uses a liquid trap and an automatically actuated bleed valve to remove all fluid contaminants and then stores them in a transparent sump bottle for easy cleanup. It also has a coalescing filter to remove any particle contaminants left in the pneumatic media before it enters the pressure controller.

The A-CPS allows hassle-free operation between the test item and the CPC6050 by reducing the additional process of deep cleaning the instrument prior to calibration. For this, the A-CPS does not require an additional power source because it is controlled completely by the pressure controller itself.

The A-CPS also acts like a test gauge stand for easy mounting and setup of the test item. This reduces the requirement of additional manifolds and setup.



Automatic contamination prevention system (A-CPS)

- 1 Top mount test item connection
- 2 Connection to the measure / control port of the CPC6050
- 3 Integrated liquid trap
- 4 Integrated coalescing filter
- 5 Purge actuation valve

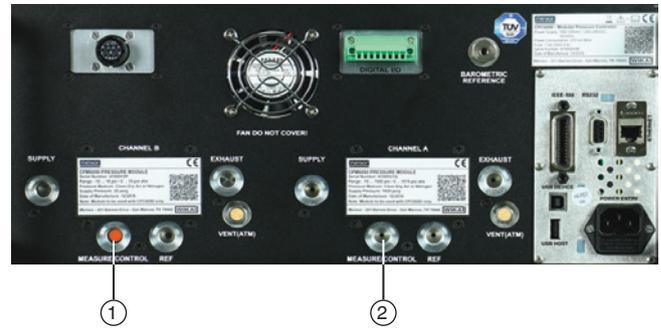
- 6 Sump collection bottle
- 7 Connection to the A-CPS backplate of the CPC6050

Versatility with single output and single supply

Auto-channeling with single output

The modular pressure controller CPC6050 is available as a single-output auto-range option. The single-output option allows the user to access the two channels of the instrument together as a single channel. The transition between the two channels and their internal sensors is automatic and provides the user a stable control over a wide dynamic pressure range.

The maximum control range turndown is as high as 400:1 between the full scale value of the lowest and highest sensor. When configured with four sensors that have contiguous ranges, the single-output auto-range option of the CPC6050 can calibrate an instrument over a wide range with the highest possible accuracy and test uncertainty ratio.



Auto-channeling with single output

Dual channel version with single output

The single-output / dual-channel option allows the user to select either channel A or channel B as the active channel at any point during operation. This provides the unique ability to choose different pressure types between the channels, or a significant difference in pressure range between the two without significant change in the instrument setup. The pressure output to the channels is combined and the same pressure output can be accessed when using either of the two channels. This reduces the total setup time and costs for manifold connections.



Dual channel version with single output

Single supply to both channels

The CPC6050 can be customized to have a single pressure supply to source both channels. The single supply option reduces the different pressure supply requirements and reduces the setup costs and resources needed. The single pressure supply is connected to the supply port of channel A and should be adequate to support the pressure supply requirements of the highest reference pressure sensor installed.

The instrument internally reduces this pressure supply to sustain the pressure on channel B as well. The single supply option can be configured with a standard two-channel instrument or an auto ranging single-output instrument.

- ① Plugged port, inactive
- ② Single measure / control output

Automatic Contamination Prevention System (A-CPS)

Specifications

Model A-CPS

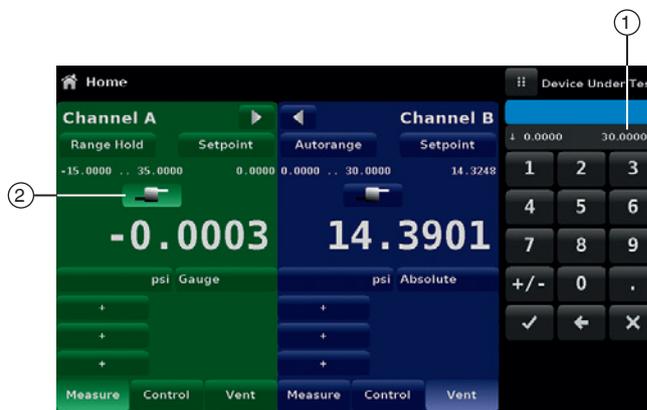
Base instrument	
Operating conditions	
Maximum operating pressure	211 bar [3,065 psi]
Maximum operating temperature	80 °C [176 °F]
Voltage supply	
Power supply	DC 12 V
Power consumption	13 VA
Pressure connection	
To the M/C port of CPC6050	1 port with 1/4" tube adapted to 7/16"- 20 F SAE
To the test item	2 ports: <ul style="list-style-type: none"> ■ 7/16" - 20 F SAE ■ 6 mm tube fitting, 1/4" tube fitting, 1/4" female NPT fittings, 1/8" female NPT fittings or 1/8" female BSP fittings
Dimensions	
Dimensions (W x H x D)	139.7 x 266.7 x 139.7 mm [5.5 x 10.5 x 5.5 in]
Weight	3.9 kg [8.8 lbs.]

A-CPS operation

Automatic or manual purging with CPC6050

The **Automatic Contamination Prevention System** can be driven seamlessly with any channel on the CPC6050 in manual or auto mode. The auto mode will engage the purge sequence every time the controller switches from vent to control mode.

The manual mode provides an option for pre-cleansing the system by purging the test item several times. A purge button appears on the instrument's home screen when the A-CPS is activated. The purge button enables setting the desired maximum pressure for decontaminating the test item prior to normal operation with the model CPC6050 modular pressure controller.



- ① Purge button
- ② Max. purge pressure limit

WIKA-Cal calibration software

Easy and fast creation of a high-quality calibration certificate

The WIKA-Cal calibration software is used for generating calibration certificates or logger protocols for pressure measuring instruments. A demo version is available for free download.

To switch from the demo version to a licensed version, a USB dongle with a valid licence must be purchased.

The pre-installed demo version changes automatically to the selected version when plugging in the USB dongle and remains available as long as the USB dongle is connected to the PC.



- The user is guided through the calibration or logger process
- Management of calibration data and instrument data
- Intelligent pre-selection via SQL database
- Menu languages: German, English, Italian, French, Dutch, Polish, Portuguese, Romanian, Spanish, Swedish, Russian, Greek, Japanese, Chinese
More languages will be due with software updates
- Customer-specific complete solutions possible

The supported instruments are continuously expanded and even customer-specific adaptations are possible.

For further information see data sheet CT 95.10

Three WIKA-Cal licences are available together with a pressure controller of CPC series

The WIKA-Cal calibration software is available for online calibrations together with a PC. The scope of software functions depends on the selected licence.

Several licences can be combined on one USB dongle.

Cal-Template (light version)	Cal-Template (full version)	Log-Template (full version)
<ul style="list-style-type: none"> ■ Semi-automated calibration 	<ul style="list-style-type: none"> ■ Fully automatic calibration 	<ul style="list-style-type: none"> ■ Live measurement recording for a certain period of time with selectable interval, duration and start time ■ Creation of logger protocols with graphic and/or tabular representation of the measurement results in PDF format ■ Export of measurement results as CSV file possible
<ul style="list-style-type: none"> ■ Creation of calibration certificates 3.1 per DIN EN 10204 ■ Export of calibration reports to Excel® template or XML file ■ Calibration of gauge pressure measuring instruments with absolute pressure references and vice versa ■ Creation of calibration certificates with no limitations on measuring points 		
Ordering information for your enquiry for a single license		
WIKA-CAL-LZ-Z-Z	WIKA-CAL-CZ-Z-Z	WIKA-CAL-ZZ-L-Z
Ordering information for your enquiry for the pair license		
Cal-Template (light version) together with Log-Template (full version)		WIKA-CAL-LZ-L-Z
Cal-Template (full version) together with Log-Template (full version)		WIKA-CAL-CZ-L-Z

Accessories for CPC6050 1)		Order code
Description		CPX-A-C5
	19"-Built-in case With side pieces, NAM	-U-
	With side pieces, EU	-T-
	Barometric reference Measuring range: 8 ... 17 psi abs. Accuracy to 0.01 % of reading	-3-
	Measuring range: 552 ... 1,172 mbar abs. Accuracy to 0.01 % of reading	-K-
	Measuring range: 552 ... 1,172 hPa abs. Accuracy to 0.01 % of reading	-L-
	Calibration adapter For reference pressure sensor, voltage supply and software	-4-
	Calibration adapter For barometric reference, voltage supply and software	-5-
	Transport case	-6-
	Adapter set 1/8" BSPG female thread (4 adapter)	-B-
	Adapter set 1/4" tube fitting (4 adapter)	-I-
	Adapter set 6 mm Swagelok® male thread (4 adapter)	-M-
	Adapter set 1/4" NPT female thread (4 adapter)	-N-
	Adapter set 1/8" NPT female thread (4 adapter)	-S-
	Block and bleed valve ≤ 400 bar [6,000 psi]	-8-
	Coalescing filter ≤ 240 bar [3,600 psi]	-9-

Accessories for CPC6050 ¹⁾		Order code
Description		CPX-A-C5
	Automatic contamination protection ≤ 210 bar [3,045 psi]	-0-
	Replacement filters for automatic CPS	-2-
	Vacuum regulator for low-pressure ranges	-1-
Ordering information for your enquiry:		
1. Order code: CPX-A-C5 2. Option:		↓ []

1) The figures are an example and may change depending on the state-of-the-art in design, material composition and representation.

Scope of delivery

- Pressure controller, modular version, model CPC6050 (desktop case)
- 1.5 m [5 ft] power cord
- Operating instructions
- A2LA calibration certificate (standard on factory)

Options

- DKD/DAkkS calibration certificate
- Barometric reference
- Spare reference pressure sensor model CPR6050
- Spare pressure module model CPM6050
- 19" rack-mounting kit
- Customer-specific system
- Adapters and fittings for pressure connections
- Digital I/O
- Automatic contamination prevention system
- Single output / auto range or dual channel version
- Single pressure supply for both channels
- Vacuum regulator

Ordering information

Model / Case type / Channel A: Pressure controller module / Channel B: Pressure controller module / Barometric reference / Type of certificate for barometric reference / Single output for 2-channel versions / CPC supply / Channel A back plate / Channel B back plate / Power cord / Transport case / Further approvals / Additional ordering information

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