

Дисплеи 4510, 4512

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +375-257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: pcn@nt-rt.ru || сайт: <https://prelectronics.nt-rt.ru/>



Display / programming front

4510

- Programming display for system 4000 and 9000 devices as well as selected system 3000 devices, and all versions of ConfigMate 4590
- Monitor process value and status from the built-in display
- Scrolling help text in 7 languages



Applications

- Communications interface for programming and modification of operational parameters.
- The easily readable 4510 display can be used to monitor the process signal, simulate the output signal, indicate sensor errors and internal device errors.
- The 4510 can be moved from one device to another. The individual system 3000 / 4000 / 9000 device configuration of a transmitter can be saved and downloaded to subsequent transmitters.

Technical characteristics

- Easy-to-read dot matrix LCD display.
- Backup memory for loading and saving of device configuration.
- Programming access can be blocked by assigning a password. The password is saved in the device in order to ensure a high degree of protection against unauthorized modifications to the configuration.

Mounting / installation / programming

- Mounting in Zone 2 / Div 2.
- All configuration data from a PR 3000 / 4000 / 9000 device can be transferred to a PC using the PR 4590.
- When mounted on devices that are installed upside down, a menu item allows the display on the 4510 to be rotated 180° and the up/down buttons to switch function.
- The PR 4510 is approved and certified as an add-on component for the PR 3000, 4000 and 9000 series of devices. All technical characteristics are valid with the PR 4510 attached.

Note

- If you need an installation instruction in hard copy, you can order it for free when placing your order.

Order

Type	Description
4510	Display / programming front
4590	ConfigMate interface

Environmental Conditions

Operating temperature.....	-20°C to +60°C
Storage temperature.....	-20°C to +85°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20
Installation in.....	Pollution degree 2 & meas. / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD).....	73.2 x 23.3 x 26.5 mm
Dimensions (HxWxD) w/ 4000/9000 unit.....	109 x 23.5 x 131 mm
Weight approx.....	20 g

Common specifications

Supply

Supply voltage.....	6.5...20 V supplied from host 4000 / 9000 device
Max. required power.....	0.15 W

I.S. / Ex marking

ATEX.....	II 3 G Ex ec IIC T5
IECEx.....	Ex ec IIC T5 Gc
FM, US.....	Cl I, Div 2, Gp A, B, C, D T5; Cl I, Zn 2, Grp IIC T5
FM, CA.....	Cl I, Div 2, Gp A, B, C, D T5
FM, US.....	Cl I, Div 2, Gp A, B, C, D T5; Cl I, Zn 2, AEx ec IIC T5 Gc
FM, CA.....	Cl I, Div 2, Gp A, B, C, D T5; Ex ec IIC T5 Gc

Observed authority requirements

EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RoHS.....	2011/65/EU & UK SI 2012/3032

Approvals

ATEX.....	DEKRA 13ATEX0098 X
IECEx.....	DEK 13.0026 X
UKEX.....	DEKRA 21UKEX0167X
c FM us.....	FM22US0014X / FM22CA0009X
CCC.....	2025322310006444
c UL us, UL 61010-1.....	E314307
DNV Marine.....	TAA00000JD



Bluetooth communication enabler

4512

- Bluetooth communication between the PR 4000 and 9000 devices and iOS/Android devices
- Live monitoring of process values and diagnostics on compatible smart devices or directly on the PR 4512
- Advanced data logging and event logging using the built-in real-time clock



Applications

- Program devices via Bluetooth using an iOS/Android device running the free PPS app (PR Process Supervisor).
- Use PPS data for preventive maintenance.
- All logged data can be exported in .csv format, for advanced data analysis off-site.
- On-site analysis of real-time process data on an iOS/Android compatible device.
- Off-site analysis of historic process data on a PC using PRreset.

Technical characteristics

- PR 4512 runs Bluetooth 4.2, and requires a smart device with 4.0 or newer.
- PPS is compatible with iOS and Android devices.
- The PR 4512 automatically detects the device setting on the connected PR 4000 and 9000 device.
- An internal battery energizes the 4512 real-time clock for at least 2 years, should the 4512 remain de-energized.
- Typical data logging capacity is more than 30 days at 1 second intervals.
- Easy to read dot matrix LCD display.
- Fast pairing or safe pairing via two-factor authentication.

Mounting / installation / programming

- Mounting in Zone 2 / Div. 2.
- The 4512 can be moved from one device to another. The individual system 4000/9000 device configuration of a transmitter can be saved and downloaded to subsequent transmitters.
- Programmed parameters can be protected by a user-defined password.
- When mounted on devices that are installed upside down, a menu selection rotates the 4512 display 180 degrees and reverses the up/down button functions.
- All data, including configuration, data log and event log from a PR 4000 / 9000 device can be transferred to a PC using the PR 4590.
- Please find an updated list of countries who have approved the use of 4512 at:

Note

- If you need an installation instruction in hard copy, you can order it for free when placing your order.

Order

Type	Description
4512	Bluetooth communication enabler
4590	ConfigMate Interface

Environmental Conditions

Operating temperature.....	-20°C to +60°C
Storage temperature.....	-20°C to +85°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20
Installation in.....	Pollution degree 2 & meas. / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD).....	73.2 x 23.3 x 26.5 mm
Dimensions (HxWxD) w/ 4000/9000 unit.....	109 x 23.5 x 131 mm
Weight approx.....	30 g

Common specifications**Supply**

Supply voltage.....	6.5...20 V supplied from host 4000 / 9000 device
Max. required power.....	0.15 W

Data logging

Memory.....	100 MB
Capacity.....	> 2.75 million data points (depending on the connected PR device)
Data retention, without power.....	~ 10 years
Extended EMC immunity: NAMUR NE21, A criterion, burst.....	No loss of communication
Internal battery back-up (for real-time clock).....	2 years (@ 25°C)
Calibrated clock accuracy.....	<±60 s/year @ 25°C
Bluetooth communication.....	BLE 4.2
Bluetooth radio.....	Class 2

I.S. / Ex marking

ATEX.....	II 3 G Ex ec IIC T5
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FM, CA.....	Cl I, Div 2, Gp A, B, C, D T5

Observed authority requirements**Directives**

EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
RED.....	2014/53/EU & UK SI 2017/1206
RoHS.....	2011/65/EU & UK SI 2012/3032

Standards

Standard for Safety.....	ANSI/ISA 61010-1 : 2004
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Bluetooth

Europe, CE.....	117-37823-1
USA, FCC.....	ID QoQBGM111
Canada, IC.....	5123A-BGM111
China, SRRC.....	2018DJ6574
Australia, RCM.....	42 004 182 772
Brazil, Anatel.....	06541-18-11723
Japan, MIC.....	R 209-J00192
Korea, KC.....	MSIP-CRM-BGT, BGM111
Malaysia, SIRIM QAS.....	RAHY/63M/1020/S(20-4544)
Singapore, IMDA.....	N1861-20
EAC.....	TR-CU 020/2011

Approvals

ATEX.....	DEKRA 13ATEX0098 X
IECEx.....	DEK 13.0026 X
UKEX.....	DEKRA 21UKEX0167X
c FM us.....	FM18US0268X / FM18CA0129X
CCC.....	2025322310006444

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