

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 PReset.

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: www.prelectronics.com/4512-bluetooth-approvals/

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

For pricing or any further information, please contact Omni Instruments Ltd.

Measurement and data acquisition solutions

Contact Details:
Tel: +44 1382 443000
Email: info@omni.uk.com

Website: www.omniinstruments.co.uk

Mailing Address: Unit 1, 14 Nobel Road, Wester Gourdie Industrial Estate, Dundee, DD2 4UH.

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
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

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

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

For pricing or any further information, please contact Omni Instruments Ltd.

omni INSTRUMENTS
Measurement and data acquisition solutions

Contact Details:
Tel: +44 1382 443000
Email: info@omni.uk.com

Website: www.omniinstruments.co.uk

Mailing Address: Unit 1, 14 Nobel Road, Wester Gourdie Industrial Estate, Dundee, DD2 4UH.