



### 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























### **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/

#### Order

Туре	Description
	Bluetooth communication enabler 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 when installed
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 a

## **Common specifications**

#### Supply

Supply vo	olta	ge	 6.520 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.....

Bluetooth communication...... BLE 4.2

### Observed authority requirements

### **Directives**

EMC	2014/30/EU
ATEX	2014/34/EU
RED	2014/53/EU
RoHS	2011/65/EU

### Bluetooth

Europe, CE	117-37823-1
USA, FCC	ID QoQBGM111
Canada, IC	5123A-BGM111
Japan, MIC	R 209-J00192
Korea, KC	MSIP-CRM-BGT, BGM111
China, SRRC	2018DJ6574
Australia, RCM	42 004 182 772

Singapore, IMDA...... N1861-20

### Standards

UL, Standard for Safety...... UL 61010-1

### **Approvals**

ATEX	DEKRA 13ATEX0098 X
IECEx	DEK 13.0026 X
c FM us	FM18US0268X /
	FM18CΔ0129X

### I.S. / Ex marking

ATEX	II 3 G Ex nA IIC 15	G
IECEx	Ex nA IIC T5 Gc	