



## DK

**ADVARSEL**  
 Dette modul er beregnet for tilslutning til livsfarlige elektriske spændinger. Hvis denne advarsel ignoreres, kan det føre til alvorlig legemsbeskadigelse eller mekanisk ødelæggelse (kun PR 4511). For at undgå faren for elektriske stød og brand skal sikkerhedsreglerne overholdes, og vejledningerne skal følges. Specifikationerne må ikke overskrides, og modulet må kun benyttes som beskrevet i det følgende. Installationsvejledningen skal studeres omhyggeligt, før modulet tages i brug. Kun kvalificeret personale (teknikere) må installere dette modul. Hvis modulet ikke benyttes som beskrevet i denne installationsvejledning, så forringes modulets beskyttelsesforanstaltninger. Reparation af modulet må kun foretages af PR electronics A/S.

**ADVARSEL**  
 Der må ikke tilsluttes farlig spænding til modulet, før dette er fastmonteret, og følgende operationer bør kun udføres på modulet i spændingsløs tilstand og under ESD-sikre forhold:  
 Installation, montage og -demontage af Modbus-kabel (PR 4511)  
 Fejlfinding på modulet.

PR 4512 er udstyret med et internt genopladeligt knapcellebatteri, der ikke kan fjernes. Forsøg aldrig at åbne bagkællingen eller fjern batteriet, da det kan medføre beskadigelse af modulet.

### SIKKERHEDSREGLER

**Mottagelse og udpakning**  
 Udpak modulet uden at beskadige det. Kontrollér ved mottagelsen, at modultypen svarer til den bestilte.

**Miljøforhold**  
 Undgå direkte sollys, kraftigt støv eller varme, mekaniske rystelser og stød, og udsæt ikke modulet for regn eller kraftigt fugt. Om nødvendigt skal opvarmning, ud over de opgivne grænser for omgivelsestemperatur, forhindres ved hjælp af ventilation. Enheden skal installeres i forureningsgrad 2 eller bedre. Enheden er designet til at være sikker mindst op til en højde af 2000 m. Enheden er konstrueret til indendørs brug. Hvis slutanvendelsen medfører, at udstyret installeres i et kabinet, svarer kabinettets indvendige driftstemperatur til modulets omgivelsestemperatur. Hvis modulet benyttes ved en omgivelsestemperatur på +55°C til +60°C, kan temperaturen i modulhuset være over +60°C. Enheden skal derfor installeres på en sådan måde, at den kun er tilgængelig for servicepersonale eller brugere, der er klar over årsagen til den begrænsede adgang og kender de nødvendige sikkerhedsforholdsregler ved en omgivelsestemperatur på +55°C til +60°C.

**Installation**  
 Modulet må kun tilsluttes af kvalificerede teknikere, som er bekendt med de tekniske udtryk, advarsler og instruktioner i installationsvejledningen, og som vil følge disse. Installer kun modulet, der er fri for fugt og støv. Modulet må kun monteres på enheder fra PR electronics 4000 og 9000 serier samt forsynes fra disse.

Hvis der er tvivl om modulets rette håndtering, skal der rettes henvendelse til den lokale forhandler eller alternativt direkte til PR electronics A/S.

**Rengøring**  
 Modulet må, i spændingsløs tilstand, rengøres med en klud let fugtet med destilleret vand.

PR 4500 Kommunikationsinterfaces - til ændring af driftsparametre. Klikkes på fronten af 4000 / 9000 modulet.

<b>Elektriske specifikationer</b>	
Specifikationsområde.....	-20°C til +60°C
Lagringstemperatur.....	-25°C til +85°C
Relativ luftfugtighed.....	< 95% RH (ikke kond.)
Kapslingsklasse.....	IP20
Mål (H x B x D).....	73,2 x 23,3 x 26,5 mm
Mål, med 4000 / 9000 modul (H x B x D).....	109 x 23,5 x 131 mm
Forsyningsspænding.....	6,5...20 V fra 4000 / 9000 værtsmodul
Max. forbrug.....	150 mW
4511: Isolationsspænding test / drift.....	2,5 kVAC / 250 VAC
4511: Forstærket isolation mellem.....	Modbus linje og 4000 / 9000 moduler
Opdateringsfrekvens / reaktionstid.....	> 50 Hz / < 20 ms

<b>Modbus-specifikationer - 4511</b>	
Signaltipe.....	RS-485 half duplex
Serielle protokol.....	Modbus RTU
Modbus mode.....	RTU - slave
Enheder på en RS485 linje.....	Op til 32 (uden repeater)
Digital adressering.....	1..247
Paritet.....	Even, Odd, None
Stop bit(s).....	1 eller 2
Reaktionsforsinkelse.....	0..1000 ms
Automatisk baud rate detektering.....	Ja, som option
Data rates, baud.....	2400, 4800, 9600, 19200, 38400, 57600, 115200

<b>Default-indstillinger - 4511</b>	
Baud.....	19200 bps
Paritetsmode.....	Even
Stop bit.....	1
Adresse.....	247
Reaktionsforsinkelse.....	0 ms

<b>Specificationer - 4512</b>	
Intern batteri-back-up (realtidur).....	2 år (@ 25°C)
Kalibreret realtidur nøjagtighed.....	<±60 s/år @ 25°C
Bluetooth-kommunikation.....	BLE 4.2
<b>Overholdte myndighedskrav:</b>	
EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
LVD - 4511.....	2014/34/EU & UK SI 2010/1101
RED - 4512.....	2014/53/EU & UK SI 2017/1206
RoHS.....	2011/65/EU & UK SI 2012/3032

<b>Godkendelser</b>	
*DfNV, Ships & Offshore.....	TAA00000JD
c UL us, UL 61010-1.....	E314307
ATEX.....	DEKRA 13ATEX0098 X
IECEX.....	DEK 13.0026X
FM, US - 4510 & 4511.....	FM22US0014X
FM, CA - 4510 & 4511.....	FM22CA0009X
FM, US - 4512.....	FM18US0268X
FM, CA - 4512.....	FM18CA0129X
UKCA.....	DEKRA 21UKEX0167X

<b>Bluetooth - 4512</b>	
Europa, CE.....	117-37823-1
US, FCC.....	ID 0q0BGM111
Canada, IC.....	5123A-BGM111
Japan, MIC.....	@209-J00192
Korea, KC.....	MSIP-CRM-BGT, BGM111
Kina, SRRC, CMIIT-ID.....	2018DJ6574
Brazilien, Anatel.....	06541-18-11723
Peru, MTC.....	T-251621-2018
Singapore, IMDA.....	N1861-20
Australien, RCM.....	42 004 182 772
Malaysia, SIRIM QAS.....	RAHY/63M/1020/S(20-4544)

\*Gælder kun 4510 & 4511.

En opdateret liste over lande, der har godkendt brugen af 4512, findes på adressen: [www.prelectronics.com/4512-bluetooth-approvals/](http://www.prelectronics.com/4512-bluetooth-approvals/)

## UK

**WARNING**  
 This device is designed for connection to hazardous electric voltages. Ignoring this warning can result in severe personal injury or mechanical damage (only PR 4511). To avoid the risk of electric shock and fire, the safety instructions of this guide must be observed and the guidelines followed. The specifications must not be exceeded, and the device must only be applied as described in the following. Prior to the commissioning of the device, this installation guide must be examined carefully. Only qualified personnel (technicians) should install this device. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. Repair of the device must be done by PR electronics A/S only.

**WARNING**  
 Until the device is fixed, do not connect hazardous voltages to the device. The following operations should only be carried out on a disconnected device and under ESD safe conditions:  
 General mounting, connection and disconnection of Modbus cable (PR 4511).  
 Troubleshooting the device.

PR 4512 has an internal, non-rechargeable, rechargeable coin cell battery. Do not attempt to open the back cover or remove the battery, as you may damage the device.

### SAFETY INSTRUCTIONS

**Receipt and unpacking**  
 Unpack the device without damaging it. Check at the receipt of the device whether the type corresponds to the one ordered.

**Environment**  
 Avoid direct sunlight, dust, high temperatures, mechanical vibrations and shock, as well as rain and heavy moisture. If necessary, heating in excess of the stated limits for ambient temperatures should be avoided by way of ventilation. The device must be installed in pollution degree 2 or better. The device is designed to be safe at least under an altitude up to 2 000 m. The device is designed for indoor use. If the equipment is installed within an ultimate enclosure, the inner service temperature of the enclosure corresponds to the ambient temperature of the module.

If the device is operated in an ambient temperature between +55°C and +60°C, the temperature of the device housing may be higher than +60°C. The device must therefore be installed so that it is only accessible to service personnel or users that are aware of the reason for restricted access and the required safety measures at an ambient temperature of +55°C to +60°C.

**Mounting**  
 Only qualified technicians who are familiar with the technical terms, warnings, and instructions in this installation guide and who are able to follow these should connect the device. Only devices which are undamaged and free of moist and dust may be installed.

The device may be installed and supplied by PR electronics 4000 and 9000 series only. Should there be any doubt as to the correct handling of the device, please contact your local distributor or, alternatively, PR electronics A/S.

**Cleaning**  
 When disconnected, the device may be cleaned with a cloth moistened with distilled water.

PR 4500 Communications interfaces for modification of operational parameters. Click the PR 4500 device onto the front of the 4000 / 9000 device.

<b>Electrical specifications</b>	
Temperature range.....	-20°C to +60°C
Storage.....	-25°C to +85°C
Relative humidity.....	< 95% RH (non-cond.)
Protection degree.....	IP20
Dimensions (HxWxD).....	73.2 x 23.3 x 26.5 mm
Dimensions, with 4000/9000 (HxWxD).....	109 x 23.5 x 131 mm
Supply voltage.....	6.5..20 V supplied from host 4000 / 9000 device
Power consumption.....	150 mW
4511: Isolation voltage, test / operation.....	2.5 kVAC / 250 VAC
4511: Reinforced isolation between.....	Modbus line and 4000/9000 moduler
Update rate / response time.....	> 50 Hz / < 20 ms

<b>Modbus specifications - 4511</b>	
Signal type.....	RS-485 half duplex
Serial protocol.....	Modbus RTU
Modbus mode.....	RTU - slave
Devices on an RS485 line.....	Up to 32 (w/o a repeater)
Digital addressing.....	1..247
Parity.....	Even, Odd, None
Stop bit(s).....	1 or 2
Response delay.....	0..1000 ms
Automatic baud rate detection.....	Yes - as an option
Data rates, baud.....	2400, 4800, 9600, 19200, 38400, 57600, 115200

<b>Default settings - 4511</b>	
Baud.....	19200 bps
Parity mode.....	Even
Stop bit.....	1
Address.....	247
Response delay.....	0 ms

<b>Specifications - 4512</b>	
Internal battery back-up (for real-time clock).....	2 years (@ 25°C)
Calibrated real-time clock accuracy.....	<±60 s/year @ 25°C
Bluetooth communication.....	BLE 4.2
<b>Observed authority requirements:</b>	
EMC.....	2014/30/EU & UK SI 2016/1091
ATEX.....	2014/34/EU & UK SI 2016/1107
LVD - 4511.....	2014/34/EU & UK SI 2010/1101
RED - 4512.....	2014/53/EU & UK SI 2017/1206
RoHS.....	2011/65/EU & UK SI 2012/3032

<b>Approvals</b>	
*DNV, Ships & Offshore.....	TAA00000JD
c UL us, UL 61010-1.....	E314307
ATEX.....	DEKRA 13ATEX0098 X
IECEX.....	DEK 13.0026X
FM, US - 4510 & 4511.....	FM22US0014X
FM, CA - 4510 & 4511.....	FM22CA0009X
FM, US - 4512.....	FM18US0268X
FM, CA - 4512.....	FM18CA0129X
UKCA.....	DEKRA 21UKEX0167X

<b>Bluetooth - 4512</b>	
Europe, CE.....	117-37823-1
US, FCC.....	ID 0q0BGM111
Canada, IC.....	5123A-BGM111
Japan, MIC.....	@209-J00192
Korea, KC.....	MSIP-CRM-BGT, BGM111
China, SRRC, CMIIT-ID.....	2018DJ6574
Brazil, Anatel.....	06541-18-11723
Peru, MTC.....	T-251621-2018
Singapore, IMDA.....	N1861-20
Australia, RCM.....	42 004 182 772
Malaysia, SIRIM QAS.....	RAHY/63M/1020/S(20-4544)

\*Valid for 4510 & 4511 only.

Please find an updated list of countries who have approved the use of 4512 at: [www.prelectronics.com/4512-bluetooth-approvals/](http://www.prelectronics.com/4512-bluetooth-approvals/)

## FR

**AVERTISSEMENT**  
 Ce module est conçu pour supporter une connexion à des tensions électriques dangereuses. Si vous ne tenez pas compte de cet avertissement, cela peut causer des dommages corporels ou des dégâts mécaniques (uniquement PR 4511). Pour éviter les risques d'électrocution et d'incendie, conformez-vous aux consignes de sécurité et suivez les instructions mentionnées dans ce guide. Vous devez vous limiter aux spécifications indiquées et respecter les instructions d'utilisation de ce module, telles qu'elles sont décrites dans ce guide. Il est nécessaire de lire ce guide attentivement avant de mettre ce module en marche. L'installation de ce module est réservée à un personnel qualifié (techniciens). Si la méthode d'utilisation de l'équipement diffère de celle décrite par le fabricant, la protection assurée par l'équipement risque d'être altérée. Seule PR electronics SARL est autorisée à réparer le module.

**INFORMATIONS GÉNÉRALES**  
 Pour éviter les risques d'électrocution et d'incendie, conformez-vous aux consignes de sécurité et suivez les instructions mentionnées dans ce guide. Vous devez vous limiter aux spécifications indiquées et respecter les instructions d'utilisation de ce module, telles qu'elles sont décrites dans ce guide. Il est nécessaire de lire ce guide attentivement avant de mettre ce module en marche. L'installation de ce module est réservée à un personnel qualifié (techniciens). Si la méthode d'utilisation de l'équipement diffère de celle décrite par le fabricant, la protection assurée par l'équipement risque d'être altérée. Seule PR electronics SARL est autorisée à réparer le module.

**AVERTISSEMENT**  
 Tant que le module n'est pas fixé, ne le mettez pas sous tensions dangereuses. Les opérations suivantes doivent être effectuées avec le module débranché et dans un environnement exempt de décharges électrostatiques (ESD):  
 Montage général, raccordement et débranchement du câble Modbus (PR 4511).  
 Recherche de pannes sur le module.

PR 4512 dispose d'une pile interne format bouton, rechargeable et non-amovible. Ne tentez pas d'ouvrir le panneau arrière ou de retirer la pile, car ceci pourrait endommager l'appareil.

### CONSIGNES DE SECURITE

**Réception et déballage**  
 Déballiez le module sans l'endommager. A la réception du module, vérifiez que le type de module reçu correspond à celui que vous avez commandé.

**Environnement**  
 Ce module est destiné à une utilisation intérieure. N'exposez pas votre module aux rayons directs du soleil et choisissez un endroit à l'humidité modérée et à l'abri de la poussière, des températures élevées, des chocs et des vibrations mécaniques et de la pluie. Le cas échéant, des systèmes de ventilation permettent d'éviter qu'une pièce soit chauffée au-delà des limites prescrites pour les températures ambiantes. Ce module doit être installé en degré de pollution 2 ou meilleur. Ce module est conçu pour fonctionner en toute sécurité sous une altitude inférieure à 2000 m. L'appareil est conçu pour une utilisation à l'intérieur. Si l'équipement est installé dans une enceinte finale, la température de service intérieure de l'enceinte correspond à la température ambiante du module. Si le module fonctionne dans une plage de température ambiante comprise entre +55°C et +60°C, la température du boîtier du module peut être supérieure à +60°C. L'appareil doit donc être installé de façon à être uniquement accessible au personnel de service ou aux personnes conscientes de la raison de cet accès limité et conformément aux mesures de sécurité requises pour une température ambiante comprise entre +55°C et +60°C.

**Montage**  
 Il est conseillé de réserver le raccordement du module aux techniciens qualifiés qui connaissent les termes techniques, les avertissements et les instructions de ce guide et qui sont capables d'appliquer ces dernières. Seuls des modules en bon état qui sont exempt d'humidité et de poussière doivent être installés. Ce module doit uniquement être monté sur les unités 4000 et 9000 de PR electronics et alimentés par ces derniers. Si vous avez un doute quelconque quant à la manipulation du module, veuillez contacter votre distributeur local. Vous pouvez également vous adresser à PR electronics SARL.

**Maintenance et entretien**  
 Une fois le module hors tension, prenez un chiffon imbibé d'eau distillée pour le nettoyer.

PR 4500 Interfaces de communication - pour la modification des paramètres de fonctionnement. Cliquez le PR 4500 sur la face avant du module 4000 / 9000.

<b>Spécifications électriques</b>	
Plage de température.....	-20° à +60°C
Température de stockage.....	-25°C à +85°C
Humidité relative.....	< 95% HR (sans cond.)
Degré de protection.....	IP20
Dimensions (HxLxP).....	73,2 x 23,3 x 26,5 mm
Dimensions, avec un module 4000 / 9000 (HxLxP).....	109 x 23,5 x 131 mm
Tension d'alimentation.....	10...20 V fourni par un hôte 4000 / 9000
Consommation.....	150 mW
4511: Tension d'isolation, test / opération.....	2,5 kVca / 250 Vca
4511: Isolation renforcé entre.....	Ligne Modbus et les modules 4000 / 9000
Vitesse de mise à jour / temps de réponse.....	> 50 Hz / < 20 ms

<b>Spécifications Modbus - 4511</b>	
Type de signal.....	RS-485 half duplex
Protocole sériel.....	Modbus RTU
Mode Modbus.....	RTU - esclave
Modules sur un ligne RS485.....	Jusqu'à 32 (sans répétiteur)
Adresse numérique.....	1..247
Parité.....	Paire, impaire, aucune
Bit(s) de stop.....	1 ou 2
Délai de réponse.....	0..1000 ms
Détection automatique de la vitesse de transmission.....	Oui, en option
Vitesse de données, baud.....	2400, 4800, 9600, 19200, 38400, 57600, 115200

<b>Paramétrage de défaut - 4511</b>	
Baud.....	19200 bps
Mode de parité.....	Paire
Bit de stop.....	1
Adresse.....	247
Délai de réponse.....	0 ms

<b>Spécifications - 4512</b>	
Sauvegarde de la batterie interne (pour l'horloge en temps réel).....	2 ans (@ 25°C)
Précision calibrée de l'horloge.....	<±60 s/an à 25 °C
Kommunikation Bluetooth.....	BLE 4.2
<b>Compatibilité avec les normes</b>	
CEM.....	2014/30/UE & UK SI 2016/1091
ATEX.....	2014/34/UE & UK SI 2016/1107
DBT - 4511.....	2014/34/UE & UK SI 2010/1101
RED - 4512.....	2014/53/UE & UK SI 2017/1206
RoHS.....	2011/65/UE & UK SI 2012/3032

<b>Approbations</b>	
*DNV, Ships & Offshore.....	TAA00000JD
c UL us, UL 61010-1.....	E314307
ATEX.....	DEKRA 13ATEX0098 X
IECEX.....	DEK 13.0026X
FM, US - 4510 & 4511.....	FM22US0014X
FM, CA - 4510 & 4511.....	FM22CA0009X
FM, US - 4512.....	FM18US0268X
FM, CA - 4512.....	FM18CA0129X
UKCA.....	DEKRA 21UKEX0167X

<b>Bluetooth - 4512</b>	
Europe, CE.....	117-37823-1
États-Unis, FCC.....	ID 0q0BGM111
Canada, IC.....	5123A-BGM111
Japon, MIC.....	@209-J00192
Corée, KC.....	MSIP-CRM-BGT, BGM111
Chine, SRRC, CMIIT-ID.....	2018DJ6574
Bésil, Anatel.....	06541-18-11723
Pérou, MTC.....	T-251621-2018
Singapour, IMDA.....	N1861-20
Australie, RCM.....	42 004 182 772
Malaisie, SIRIM QAS.....	RAHY/63M/1020/S(20-4544)

\*Valable pour 4510 & 4511 uniquement.

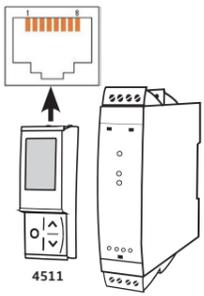
Vous trouverez la liste à jour des pays ayant approuvé l'utilisation du 4512 sur la page: [www.prelectronics.com/4512-bluetooth-approvals/](http://www.prelectronics.com/4512-bluetooth-approvals/)

## DE

**WARNUNG**  
 Dieses Gerät ist für den Anschluss an lebensgefährliche elektrische Spannungen gebaut. Missachtung dieser Warnung kann zu schweren Verletzungen oder mechanischer Zerstörung führen (nur PR 4511). Um eine Gefährdung durch Stromstöße oder Brand zu vermeiden müssen die Sicherheitsregeln der Installationsanleitung eingehalten, und die Anweisungen befolgt werden. Die Spezifikationswerte dürfen nicht überschritten werden, und das Gerät darf nur gemäß folgender Beschreibung benutzt werden. Diese Installationsanleitung ist sorgfältig durchzulesen, ehe das Gerät in Gebrauch genommen wird. Nur qualifizierte Personen (Techniker) dürfen dieses Gerät installieren. Wenn das Gerät nicht wie in dieser Installationsanleitung beschrieben benutzt wird, werden die Schutzrichtungen des Gerätes beeinträchtigt. Reparaturen des Gerätes dürfen nur von PR electronics A/S vorgenommen werden.

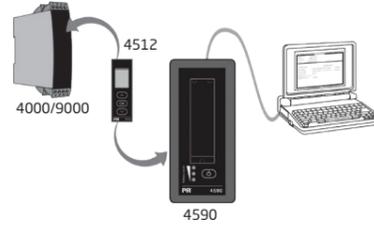
**WARNUNG**  
 Vor dem abgeschlossenen festen Einbau des Gerätes darf daran keine gefährliche Spannung angeschlossen werden, und folgende Maßnahmen sollten nur in spannungslosem Zustand des Gerätes und unter ESD-sicheren Verhältnisse durchgeführt werden: Installation, Montage und Demontage des Modbus-Kabels (PR 4511).  
 Fehlersuche im Gerät.

PR 4512 verfügt über eine integrierte, nicht austauschbare, wiederaufladbare Knopfzellenbatterie. Versuchen Sie nicht, die Geräterückseite zu öffnen oder die Batterie zu entnehmen, da das zu einer Beschädigung des Gerätes führen könnte.



- DK** **RJ45 Modbus stik**  
Terminal 5: RS485 linie A  
Terminal 4: RS485 linie B  
Terminal 8: RS485 GND og skjærm
- UK** **RJ45 Modbus Connector**  
Pin 5: RS485 A line  
Pin 4: RS485 B line  
Pin 8: RS485 GND and shield
- FR** **Connecteur Modbus RJ45**  
Borne 5: RS485 ligne A  
Borne 4: RS485 ligne B  
Borne 8: RS485 terre et écran
- DE** **RJ45 Modbus Connector**  
Terminal 5: RS485 Linie A  
Terminal 4: RS485 Linie B  
Terminal 8: RS485 Erde und Schirm

- DK** Tilslutning af ConfigMate 4590 til et PR 4000 eller 9000 modul vha. 4512 Bluetooth kommunikations-interface til overførsel af loggede data til en pc.
- UK** Connection of ConfigMate 4590 to a PR 4000 or 9000 device using the 4512 Bluetooth communication enabler for transfer of logged data to a PC.
- FR** Connexion d'un ConfigMate 4590 à un appareil PR 4000 ou 9000 en utilisant l'interface de communication Bluetooth 4512 pour le transfert de données enregistrées vers un PC.
- DE** Anschluss des ConfigMate 4590 an ein Gerät der 4000er- oder 9000er-Serie, die über die Bluetooth Kommunikationsschnittstelle 4512 konfiguriert werden.



**EU DECLARATION OF CONFORMITY**  
(4510\_4511DoC\_104)



As manufacturer  
**PR electronics A/S, Lerbakken 10, DK-8410 Rønde**  
hereby declares that the following products:  
**Type: 4510 - 4511**  
**Name: Display / programming front - Modbus communication enabler**  
**From serial no.: 221207001**  
are in conformity with the following directives and standards:  
The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.  
\*The Low Voltage 2014/35/EU Directive and later amendments  
**EN 61010-1 : 2010 + A1 : 2019**  
The ATEX Directive 2014/34/EU and later amendments  
**EN IEC 60079-0 : 2018 and EN 60079-7 : 2015 + A1 : 2018**  
**ATEX certificate: DEKRA 13ATEX0098 X**  
ATEX notified body (type approval)  
**DEKRA Certification B.V.**  
**Meander 1051, 6825 MJ Arnhem**  
**P.O. Box 5185, 6802 ED Arnhem**  
**The Netherlands**  
The RoHS2 Directive 2011/65/EU and later amendments  
**EN IEC 63000 : 2018**  
Notified body 0344  
**DEKRA Certification B.V.**  
**Meander 1051, 6825 MJ Arnhem**  
**P.O. Box 5185, 6802 ED Arnhem**  
**The Netherlands**  
This declaration of conformity is issued under the sole responsibility of the manufacturer.  
*Stig Lindemann, CTO*  
Manufacturer's signature  
Rønde, 19 April 2022  
\*Does not apply to 4510.

**EU DECLARATION OF CONFORMITY**  
(4512DoC\_102)



As manufacturer  
**PR electronics A/S, Lerbakken 10, DK-8410 Rønde**  
hereby declares that the following products:  
**Type: 4512**  
**Name: Bluetooth communication enabler**  
**From serial no.: 221025240**  
is in conformity with the following directives and standards:  
The EMC Directive 2014/30/EU and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.  
The ATEX Directive 2014/34/EU and later amendments  
**EN IEC 60079-0 : 2018 and EN 60079-7 : 2015 + A1 : 2018**  
**ATEX certificate: DEKRA 13ATEX0098 X**  
ATEX notified body (type approval)  
**DEKRA Certification B.V.**  
**Meander 1051, 6825 MJ Arnhem**  
**P.O. Box 5185, 6802 ED Arnhem**  
**The Netherlands**  
The Radio Equipment Directive (RED) 2014/53/EU and later amendments  
**EN 300328 V2.2.2 : 2016 and EN 300440 V2.1.1 : 2017**  
The RoHS2 Directive 2011/65/EU and later amendments  
**EN IEC 63000 : 2018**  
Notified body 0344  
**DEKRA Certification B.V.**  
**Meander 1051, 6825 MJ Arnhem**  
**P.O. Box 5185, 6802 ED Arnhem**  
**The Netherlands**  
This declaration of conformity is issued under the sole responsibility of the manufacturer.  
*Stig Lindemann, CTO*  
Manufacturer's signature  
Rønde, 25 May 2022

**UKCA DECLARATION OF CONFORMITY**  
(4510\_4511DoC\_UKCA\_100)



As manufacturer  
**PR electronics A/S, Lerbakken 10, DK-8410 Rønde**  
hereby declares that the following products:  
**Type: 4510 - 4511**  
**Name: Display / programming front - Modbus communication enabler**  
**From serial no.: 221207001**  
are in conformity with the following statutory requirements:  
The Electromagnetic Compatibility Regulations 2016 (UK SI 2010/1091) and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.  
\*The Electrical Equipment (Safety) Regulations 2016 (UK SI 2010/1101) and later amendments  
**EN 61010-1 : 2010 + A1 : 2019**  
The Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (UK SI 2016/1107) and later amendments  
**EN 60079-0 : 2018 and EN 60079-7 : 2015 + A1 : 2018**  
**UK type examination certificate: DEK 21UKEX0167X**  
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2010/3032) and later amendments  
**EN IEC 63000 : 2018**  
This declaration of conformity is issued under the sole responsibility of the manufacturer.  
*Stig Lindemann, CTO*  
Manufacturer's signature  
Rønde, 30 May 2024  
\*Does not apply to 4510.

**UKCA DECLARATION OF CONFORMITY**  
(4512DoC\_UKCA\_100)

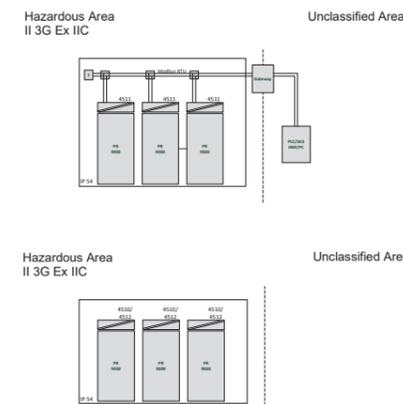


As manufacturer  
**PR electronics A/S, Lerbakken 10, DK-8410 Rønde**  
hereby declares that the following product:  
**Type: 4512**  
**Name: Bluetooth communication enabler**  
**From serial no.: 221025240**  
is in conformity with the following statutory requirements:  
The Electromagnetic Compatibility Regulations 2016 (UK SI 2010/1091) and later amendments  
**EN 61326-1 : 2013**  
Immunity test requirements for equipment intended to be used in an industrial electromagnetic environment. For specification of the acceptable EMC performance level, refer to the electrical specifications for the device.  
The Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (UK SI 2016/1107) and later amendments  
**EN 60079-0 : 2018 and EN 60079-7 : 2015 + A1 : 2018**  
**UK type examination certificate: DEK 21UKEX0167X**  
The Radio Equipment Regulations 2017 (UK SI 2017/1206) and later amendments  
**EN 300328 V2.2.2 : 2016 and EN 300440 V2.1.1 : 2017**  
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK SI 2010/3032) and later amendments  
**EN IEC 63000 : 2018**  
This declaration of conformity is issued under the sole responsibility of the manufacturer.  
*Stig Lindemann, CTO*  
Manufacturer's signature  
Rønde, 30 May 2024

**ATEX/UKEX Installation drawing**  
**4500QA01-V2R0**

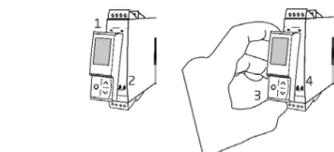
Ex Certificates: **DEKRA 13ATEX0098 X**  
**DEKRA 21UKEX0167X**  
Standards: **EN IEC 60079-0**  
**EN 60079-7**  
Marking: **II 3G Ex ec IIC T5**  
Temperature range: **-20°C ≤ Ta ≤ +60°C**

**ATEX/UKEX Installation Instructions**  
For safe installation of the 4500 series of products the following must be observed.



**General installation instructions**

Year of manufacture can be taken from the first two digits in the serial number. For safe Ex installation the following must be observed: The device must be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. To prevent ignition of the explosive atmospheres do not separate connectors when energized and an explosive gas mixture is present. To avoid the risk of explosion due to electrostatic charging of the enclosure, do not handle the units unless the area is known to be safe, or appropriate safety measures are taken to avoid electrostatic discharge.



- Mounting of PR 4500 communications interface:
1. Insert the tabs of the PR 4500 into the slots at the top of the device.
  2. Hinge the PR 4500 down until it snaps into place.
- Demounting of the PR 4500 communication interfaces:
3. Push the release button on the bottom of the PR 4500 and hinge the PR 4500 out and up.
  4. With the PR 4500 hinged up, remove from the slots at the top of the device.

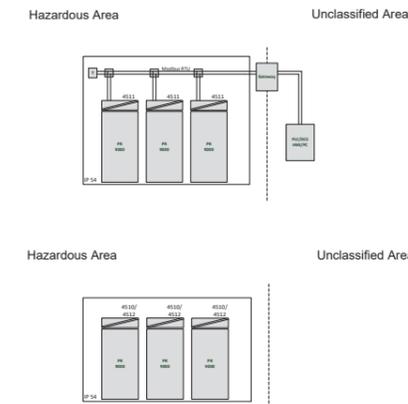
**Specific Conditions of Use**

- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN IEC 60664-1.
- The devices must be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.

**IECEx Installation drawing**  
**4500QI01-V2R0**

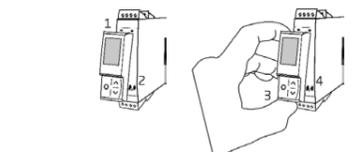
Ex Certificates: **IECEx DEK 13.0026X**  
Standards: **IEC 60079-0**  
**IEC 60079-7**  
Marking: **Ex ec IIC T5 Gc**  
Temperature range: **-20°C ≤ Ta ≤ +60°C**

**IECEx Installation Instructions**  
For safe installation of the 4500 series of products the following must be observed.



**General installation instructions**

Year of manufacture can be taken from the first two digits in the serial number. For safe Ex installation the following must be observed: The device must be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. To prevent ignition of the explosive atmospheres do not separate connectors when energized and an explosive gas mixture is present. To avoid the risk of explosion due to electrostatic charging of the enclosure, do not handle the units unless the area is known to be safe, or appropriate safety measures are taken to avoid electrostatic discharge.



- Mounting of PR 4500 communications interface:
1. Insert the tabs of the PR 4500 into the slots at the top of the device.
  2. Hinge the PR 4500 down until it snaps into place.
- Demounting of the PR 4500 communication interfaces:
3. Push the release button on the bottom of the PR 4500 and hinge the PR 4500 out and up.
  4. With the PR 4500 hinged up, remove from the slots at the top of the device.

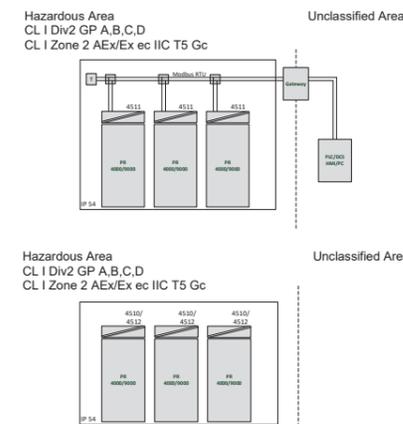
**Specific Conditions of Use**

- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN IEC 60664-1.
- The devices must be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.

**FM Installation drawing**  
**4500QF01-V1R0**

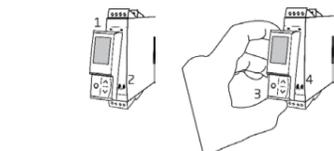
FM Certificates: **FM22US0014X**  
**FM22CA0009X**  
Standards: **See Certificate**  
Marking: **CL I Div 2 GP A,B,C,D T5**  
**CL I Zone 2 AEx/Ex ec IIC T5 Gc**  
Temperature range: **-20°C ≤ Ta ≤ +60°C**

**AEx/Ex ec Installation Instructions**  
For safe installation of the 4500 series of products the following must be observed.



**General installation instructions**

Year of manufacture can be taken from the first two digits in the serial number. For safe Ex installation the following must be observed: The device must be installed by qualified personnel who are familiar with the national and international laws, directives and standards that apply to this area. To prevent ignition of the explosive atmospheres do not separate connectors when energized and an explosive gas mixture is present. To avoid the risk of explosion due to electrostatic charging of the enclosure, do not handle the units unless the area is known to be safe, or appropriate safety measures are taken to avoid electrostatic discharge.



- Mounting of PR 4500 communications interface:
1. Insert the tabs of the PR 4500 into the slots at the top of the device.
  2. Hinge the PR 4500 down until it snaps into place.
- Demounting of the PR 4500 communication interfaces:
3. Push the release button on the bottom of the PR 4500 and hinge the PR 4500 out and up.
  4. With the PR 4500 hinged up, remove from the slots at the top of the device.

**Specific Conditions of Use**

- Class 1, Division 2**  
In Class 1, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class 1, Division 2 wiring methods specified in the National NEC or CEC.
- Class 1, Zone 2**
- The equipment shall be installed within an enclosure that provides a minimum ingress protection of IP54 in accordance with ANSI/UL 60079-0 or CSA C22.2 No. 60079-0.
  - The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
  - Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.